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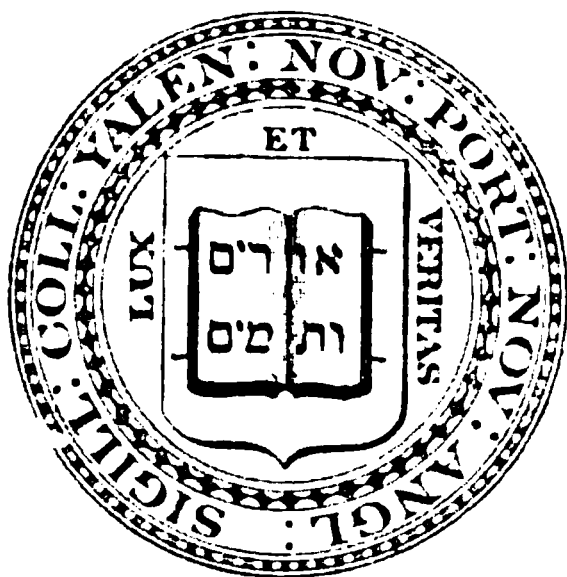






BULLETIN  
OF  
YALE UNIVERSITY

Fifth Series, No. 2. December, 1908



GENERAL CATALOGUE

1908-09

PUBLISHED BY  
YALE UNIVERSITY  
NEW HAVEN, CONNECTICUT

## **BULLETIN OF YALE UNIVERSITY**

**Entered as second-class matter, August 30, 1906, at the post-office at New Haven, Conn., under the Act of Congress of July 16, 1894.**

**The Bulletin, which is issued monthly, includes :**

- 1. The University Catalogue.**
- 2. The Reports of the President, Treasurer, and Librarian.**
- 3. The Pamphlets of the Several Departments.**

**THE TUTTLE, MOREHOUSE & TAYLOR COMPANY, NEW HAVEN, CONN.**



270.



UNIVERSITY

Limits of this map, see

10 ft.



GROVE



MAP OF THE CITY OF NEW HAVEN.

# BUILDINGS.

Map of New Haven (over).

## ABREVIATIONS



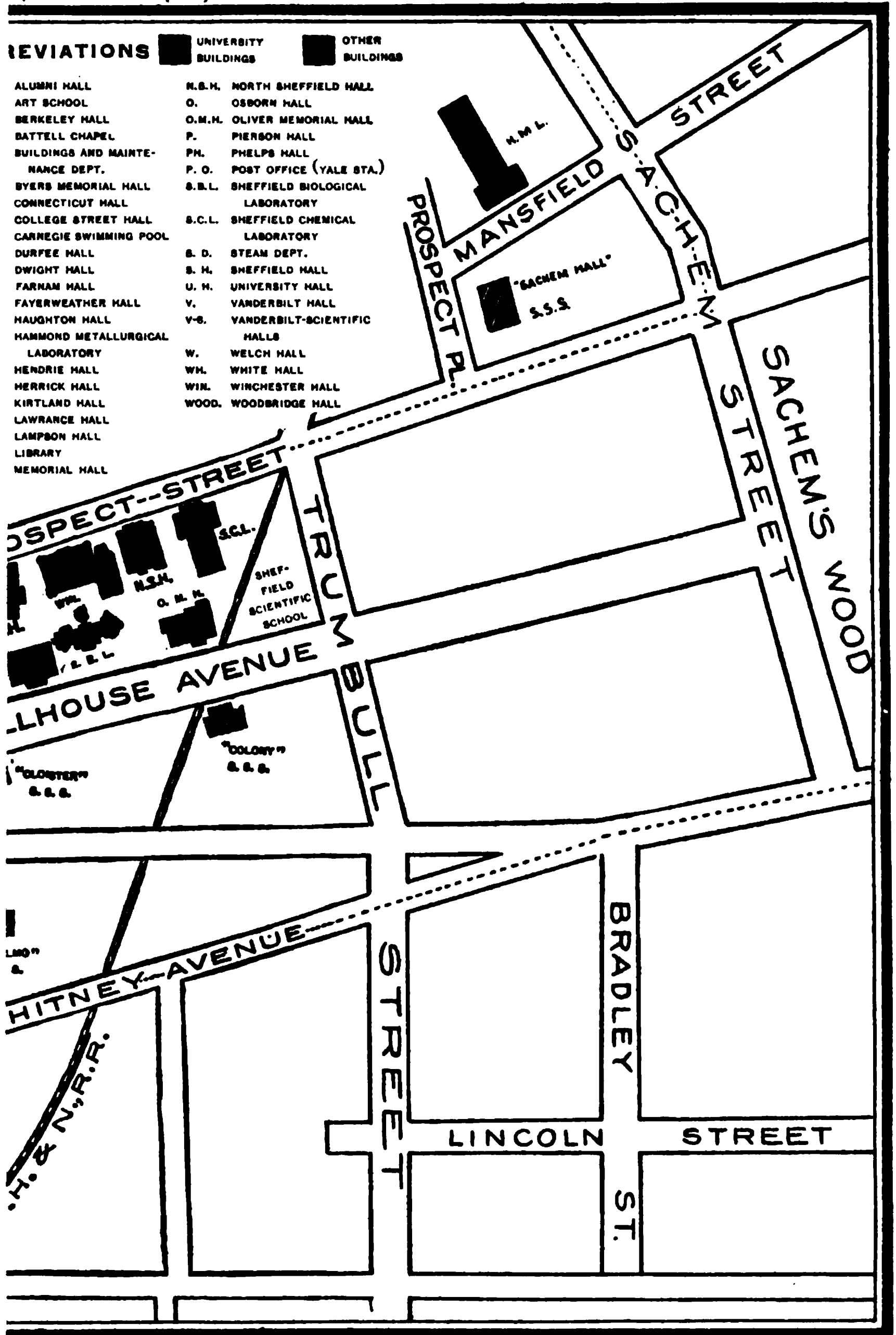
UNIVERSITY  
BUILDINGS



OTHER  
BUILDINGS

ALUMNI HALL  
ART SCHOOL  
BERKELEY HALL  
BATTALL CHAPEL  
BUILDINGS AND MAINTENANCE DEPT.  
BYERS MEMORIAL HALL  
CONNECTICUT HALL  
COLLEGE STREET HALL  
CARNEGIE SWIMMING POOL  
DURFEE HALL  
DWIGHT HALL  
FARNAM HALL  
FAYERWEATHER HALL  
HAUGHTON HALL  
HAMMOND METALLURGICAL LABORATORY  
HENDRIE HALL  
HERRICK HALL  
KIRTLAND HALL  
LAWRENCE HALL  
LAMPSON HALL  
LIBRARY  
MEMORIAL HALL

N.S.H. NORTH SHEFFIELD HALL  
O. OSBORN HALL  
O.M.H. OLIVER MEMORIAL HALL  
P. PIERSON HALL  
PH. PHELPS HALL  
P.O. POST OFFICE (YALE STA.)  
S.B.L. SHEFFIELD BIOLOGICAL LABORATORY  
S.C.L. SHEFFIELD CHEMICAL LABORATORY  
S.D. STEAM DEPT.  
S.H. SHEFFIELD HALL  
U.H. UNIVERSITY HALL  
V. VANDERBILT HALL  
V-S. VANDERBILT-SCIENTIFIC HALLS  
W. WELCH HALL  
WH. WHITE HALL  
WIN. WINCHESTER HALL  
WOOD. WOODBRIDGE HALL



CATALOGUE  
OF  
YALE UNIVERSITY

1908-09

NEW HAVEN  
THE TUTTLE, MOREHOUSE & TAYLOR COMPANY  
1908





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## OFFICE HOURS

The PRESIDENT OF THE UNIVERSITY—Woodbridge Hall, 8.30 A. M. to 1.00 P. M. (Students not having an appointment are advised to call between 10.15 and 11.15 A. M.)

The SECRETARY OF THE UNIVERSITY—Woodbridge Hall, 10.00 A. M. to 1.00 P. M. (Secretary's Office, 9.00 A. M. to 1.00 P. M. and 2.00 to 4.30 P. M. Saturday and in vacation, 9.00 A. M. to 1.00 P. M.)

The TREASURER OF THE UNIVERSITY—Woodbridge Hall, 9.00 A. M. to 5.00 P. M. (Office closes Saturday and in vacation at 1.00 P. M.)

---

ACADEMICAL DEPARTMENT (Yale College)—The DEAN, Lampson Hall, 10.30 A. M. to 1.00 P. M.

SHEFFIELD SCIENTIFIC SCHOOL—The DIRECTOR and TREASURER, 3 Sheffield Hall, 9.00 A. M. to 1.00 P. M.

GRADUATE SCHOOL—The DEAN, 90 High st., daily, except Saturday, 10.00 to 11.30 A. M. (Dean's Office 10.00 A. M. to 12 M., and 2.00 to 3.00 P. M. except Saturday.)

SCHOOL OF THE FINE ARTS—The DIRECTOR, 9.00 A. M. to 12.00 M., 2.00 to 4.00 P. M.

DEPARTMENT OF MUSIC—The DEAN, 126 College st., Wednesday, 12.30 to 1.00 P. M.; Tuesday, Wednesday, Thursday, and Friday, 3.00 P. M. (Secretary's Office, daily, 10.00 A. M. to 1.00 P. M.)

• DEPARTMENT OF FORESTRY—The DIRECTOR, 360 Prospect st., daily, 9.00 A. M. to 12.00 M.

DEPARTMENT OF THEOLOGY—ACTING DEAN, 668 West Divinity Hall, daily, except Saturday, 9.30 to 10.30 A. M.

DEPARTMENT OF MEDICINE—The DEAN, Room 25, 150 York st., 9.00 to 11.00 A. M.

DEPARTMENT OF LAW—The DEAN, Hendrie Hall, 9.00 A. M. to 1.00 P. M. The SECRETARY, Room 17, Hendrie Hall, 8.30 to 11.30 A. M.

OBSERVATORY—The DIRECTOR, The Observatory, cor. Prospect and Canner streets, 11.00 A. M. to 1.00 P. M.

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COLLEGE BURSAR'S OFFICE—Lampson Hall, 9.00 A. M. to 3.00 P. M.

BUREAU OF APPOINTMENTS—4 Phelps Hall, 9.30 A. M. to 12.30 P. M.

## **GENERAL INFORMATION**

The CATALOGUE OF YALE UNIVERSITY is published in December. Price, fifty cents. (A copy will be sent free of charge to any graduate desiring it.)

The CATALOGUE OF OFFICERS AND GRADUATES, heretofore generally known as The TRIENNIAL CATALOGUE, was last issued in October, 1904. Price, one dollar. It will hereafter be published every five years, beginning in 1910.

The DIRECTORY OF LIVING GRADUATES was last issued in October, 1908. Price, one dollar. (Distribution limited at the discretion of the officers of the University.)

The PAMPHLETS of any Department of the University are furnished without charge. These contain detailed information not given in the University Catalogue, especially regarding the individual courses.

The UNIVERSITY BULLETIN, published weekly in term time and containing announcements of lectures, prizes, etc., is posted on local bulletin boards, and sent to subscribers for one dollar a year.

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For Catalogues and general information, address THE SECRETARY OF YALE UNIVERSITY, YALE STATION, NEW HAVEN, CONNECTICUT.

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To find the position or address of any officer, consult page reference in Directory at the back of this List.

## ABBREVIATIONS

A. Absent on leave.	LIB. University Library.
A.H. Alumni Hall.	M.S. Medical School.
A.S. Art School.	MAR. Marsh Hall.
B. Berkeley Hall.	MEM. Memorial Hall.
B.C. Battell Chapel.	N.S.H. North Sheffield Hall.
B.G. Botanical Gardens.	O. Osborn Hall.
B.M.H. Byers Memorial Hall.	P. Pierson Hall.
C. Connecticut Hall.	PEAB. Peabody Museum.
C.D. Carpentry Department.	P.O. Post Office (Yale Station).
C.S.H. College Street Hall.	PH. Phelps Hall.
D. Durfee Hall.	S.B.L. Sheffield Biological Lab'y.
DW. Dwight Hall.	S.C.L. Sheffield Chemical Lab'y.
E.D. East Divinity Hall.	S.H. Sheffield Hall.
F. Farnam Hall.	S.P.L. Sloane Physical Lab'y.
FW. Fayerweather Hall.	U.C. University Clinic.
G. Gymnasium.	U.H. University Hall (Dining Hall).
H.M.L. Hammond Metallurgical Laboratory.	V. Vanderbilt Hall.
HEN. Hendrie Hall.	V-S. Vanderbilt-Scientific Halls.
HER. Herrick Hall.	W. Welch Hall.
K. Kirtland Hall.	W.D. West Divinity Hall.
K.C.L. Kent Chemical Laboratory.	W.O. Winchester Observatory.
L. Lawrance Hall.	WH. White Hall.
LAM. Lampson Hall (containing Lampson Lyceum).	WIN. Winchester Hall.
L.O.M. Leet Oliver Memorial Hall.	WOOD. Woodbridge Hall.
	WOOL. Woolsey Hall.

## NUMBERING OF ROOMS

### COLLEGE DORMITORIES

1- 69. Vanderbilt Hall.	233-272. Durfee Hall.
70- 93. Connecticut Hall.	331-382. White Hall.
94-141. Welch Hall.	383-422. Berkeley Hall.
142-183. Lawrance Hall.	423-470. Fayerweather Hall.
184-232. Farnam Hall.	521-600. Pierson Hall.

### SHEFFIELD SCIENTIFIC SCHOOL BUILDINGS

1- 21. Sheffield Hall.	200-226. Leet Oliver Memorial Hall.
25- 58. North Sheffield Hall.	
60- 79. Sheffield Biological Lab'y.	1- 14. Byers Hall, dormitory floor.
100-135. Winchester Hall.	
140-162. Sheffield Chemical Lab'y.	100-153. Vanderbilt-Scientific Halls.
175-193. Kirtland Hall.	

### DIVINITY SCHOOL

601-654. East Divinity Hall.	655-724. West Divinity Hall.
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TUE.	WED.	THU.	FRI.	SAT.
..	..	1	2	3
6	7	8	9	10
13	14	15	16	17
20	21	22	23	24
27	28	29	30	31
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31	..	..	..	..
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21	22	23	24	25
28	29	30	..	..
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5	6	7	8	9
12	13	14	15	16
19	20	21	22	23
26	27	28	29	30
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2	3	4	5	6
9	10	11	12	13
16	17	18	19	20
23	24	25	26	27
30	..	..	..	..
..	1	2	3	4
7	8	9	10	11
14	15	16	17	18
21	22	23	24	25
28	29	30	31	..



## UNIVERSITY CALENDAR

### 1908

24 Sept.	Thursday	First Term begins.
5 Oct.	Monday	Yale Corporation Meeting.
16 Nov.	Monday	Yale Corporation Meeting.
25 Nov.	Wednesday	Thanksgiving Recess begins, 1.20 P. M.
27 Nov.	Friday	Recess ends, 8.00 A. M.
16 Dec.	Wednesday	First Term ends, 6.00 P. M.

### 1909

#### Winter Vacation

6 Jan.	Wednesday	Second Term begins, 8.00 A. M.
15 Feb.	Monday	Yale Corporation Meeting.
15 March	Monday	Yale Corporation Meeting.
31 March	Wednesday	Spring Recess begins, 1.20 P. M.
15 April	Thursday	Recess ends, 8.00 A. M.
17 May	Monday	Yale Corporation Meeting.
31 May	Monday	Memorial Day Holiday.
1 June	Tuesday	Anniversary of the Divinity School.
1 June	Tuesday	Anniversary of the School of the Fine Arts.
27 June	Sunday	Baccalaureate Sermon.
28 June	Monday	College Class-Day Exercises.
28 June	Monday	Scientific School Class-Day Exercises.
28 June	Monday	Anniversary of the Law School.
28 June	Monday	Anniversary of the Medical School.
28 June	Monday	Yale Corporation Meeting.
29 June	Tuesday	Anniversary Meeting of the Alumni.
30 June	Wednesday	Commencement.
30 June	Wednesday	Examination for Admission to Yale College begins, 2.00 P. M.
1 July	Thursday	Examinations for Admission to other Departments begin.

#### Summer Vacation

25 Sept.	Saturday	Examination for Admission to Yale College begins, 10.30 A. M.
27 Sept.	Monday	Examinations for Admission to other Departments begin.
30 Sept.	Thursday	First Term begins.
22 Dec.	Wednesday	First Term ends.

## CHRONOLOGICAL TABLE

Meeting of Ministers in Branford, for founding a College	1700-1701
Charter of the Collegiate School of Connecticut . . . . .	1701
Organization under the Charter . . . . .	1701
Beginning of instruction at Saybrook . . . . .	1702
Removal to New Haven . . . . .	1716
The Collegiate School named Yale College . . . . .	1718
Revised Charter . . . . .	1745
Act of the General Assembly of Connecticut by which State Officers became members of the Corporation . . . . .	1792
Charter of the Medical School . . . . .	1810
Beginning of instruction in the Medical School . . . . .	1813
Charter confirmed by new Constitution of the State . . . . .	1818
Beginning of instruction in the Divinity School . . . . .	1822
Law School affiliated to the College . . . . .	1824
Graduate Courses in Philosophy and the Arts organized . . . . .	1846
Scientific section of the Department of Philosophy and the Arts named the Sheffield Scientific School . . . . .	1861
School of the Fine Arts established . . . . .	1866
Act of the General Assembly providing for the election of six members of the Corporation by the Alumni . . . . .	1871
Act of the General Assembly authorizing the name Yale University . . . . .	1887
Department of Music established . . . . .	1894
Forest School established . . . . .	1900
Bicentennial Celebration . . . . .	1901

**PART I**

**OFFICERS OF THE UNIVERSITY**



## CORPORATION

### PRESIDENT

ARTHUR TWINING HADLEY, LL.D.

### FELLOWS

HIS EXCELLENCY THE GOVERNOR OF CONNECTICUT

HIS HONOR THE LIEUTENANT GOVERNOR OF CONNECTICUT

REV. JOSEPH ANDERSON, D.D., WOODMONT

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—1912†

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† A date indicates the year in which the term of a Fellow elected by the Alumni expires.

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THE SECRETARY OF THE UNIVERSITY, *Secretary*

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THE TREASURER OF THE UNIVERSITY

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New York City, Yale Club of

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Northeastern Pennsylvania and Wyoming Valley, Yale Alumni Association of

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Pittsburg, Yale Alumni Association of

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Scranton and Wilkes-Barre,

HON. JOSEPH BENJAMIN DIMMICK, M.A., Scranton.

Southeastern Federation of Yale Alumni Associations (Tennessee, Alabama, Georgia, South Carolina, and Savannah)

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St. Louis, Yale Alumni Association of

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Wisconsin, Yale Alumni Association of

JAMES GREELEY FLANDERS, B.A., LL.B., 161 Prospect st., Milwaukee.

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ANSON PHELPS STOKES, JR., M.A., *Secretary*

LEE MCCLUNG, M.A., *Treasurer*

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*Superintendent of Dwight Hall*

Dwight Hall

JAMES WILLARD WILLIAMS, B.A.

*University General Secretary of the Yale University Christian Association*

2 Dwight Hall

CECIL WRIGHT

*Proctor*

542 P.

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### LIBRARIES

ELIZABETH DESHLER BOGGS

*Assistant in the Library*

(LIB.) 100 York sq.

MRS. JENNIE CAMPBELL

*Cataloguer in the Library*

(LIB.) 87 Dwight st.

RUTH LOUISE COMES

*Cataloguer in the Library*

(LIB.) 382 Dixwell av.

JAMES ALOYSIUS DELACEY

*Assistant in the Library*

(LIB.) 179 Exchange st.

KARL DIEHL

*Assistant in the Library*

(LIB.) 43 Sylvan av.

ANNIE PAMELIA DINGMAN

*Cataloguer in the Library*

(LIB.) 37 College st.

JOHN IRELAND HOWE DOWNES, B.F.A.

*Librarian of the Art School*

(A. S.) 345 Whitney av.

JOEL NELSON ENO, M.A.

*Cataloguer in the Library*

(LIB.) 130 Howe st.

CHARLES DAVID FAIRMAN

*Assistant in the Library*

(LIB.) 208 Whalley av.

GLADYS LADD FRISBY

*Cataloguer in the Library*

(LIB.) 707 Elm st.

MRS. HENRIETTA CLARK GILBERT

*Assistant in the Library*

(LIB.) 26 Kensington st.

EDNA MAY GILLETTE

*Private Secretary to the Librarian*

(LIB.) 252 Winthrop av.



HENRY ROBERT GRUENER <i>Assistant in the Library</i>	(LIB.) 78 Pearl st.
MRS. JESSIE CRAIG HARGER <i>Cataloguer in the Library</i>	(LIB.) 14 University pl.
ELLEN A. HEDRICK, B.A. <i>Catalogue Reviser in the Library</i>	(LIB.) 65 Grove st.
ARABELLA ENSIGN HORTON <i>Cataloguer in the Library</i>	(LIB.) 202 Crown st.
ANNIE ELIZA HUTCHINS <i>Catalogue Reviser in the Library</i>	Library
SARA GARDNER HYDE <i>Catalogue Reviser in the Library</i>	(LIB.) 65 Grove st.
GEORGE ALEXANDER JOHNSON <i>Assistant in the Library</i>	(LIB.) 1916 State st.
CONSTANCE KERSCHNER <i>Cataloguer in the Library</i>	(LIB.) 191 Edgewood av.
BESSIE MAY LANCASTER <i>Cataloguer in the Library</i>	(LIB.) 333 Dixwell av.
ANNA MARIE MONRAD, B.S. <i>Cataloguer in the Library</i>	(LIB.) 90 Whalley av.
EDWARD THEODORE NEWELL, B.A. <i>Curator of the Numismatic Collections</i>	(LIB.) 935 Yale P. O.
CORNELIA EMMA NOTZ, B.A. <i>Cataloguer in the Library</i>	(LIB.) 191 Edgewood av.
JESSIE AGNES PARSONS <i>Cataloguer in the Library</i>	(LIB.) 917 Howard av.
MOLLIE MARJORIE PATTON <i>Cataloguer in the Library</i>	(LIB.) 195 Atwater st.
EUNICE ELEANOR PECK <i>Cataloguer in the Library</i>	(LIB.) 111 York st.
MAYNARD RAY SANBORN <i>Assistant in the Library</i>	(LIB.) 25 Woodland st.
MARJORIE HOUGHTON SMITH <i>Cataloguer in the Library</i>	(LIB.) 9 College st.
ISABELLA MAUDE TISDALE <i>Cataloguer in the Library</i>	(LIB.) 268 Orchard st.
REBECCA DUTTON TOWNSEND <i>Cataloguer in the Library</i>	(LIB.) 76 Mansfield st.
MABELLE WARNER LEES WILLIAMS <i>Cataloguer in the Library</i>	(LIB.) 67 Smith st., West Haven

ADRIENNE VAN WINKLE

*Catalogue Reviser in the Library*

(LIB.) 98 Howe st.

ALICE AMELIA WOOD, B.S.

*Cataloguer in the Library*

(LIB.) 1305 Chapel st.

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### BUILDINGS AND GROUNDS

HENRY A. BARNES

*Superintendent of the University Steam Department*

(rear HER.) 80 Admiral st.

WILLIAM DANIEL HENNIG

*Superintendent of College Janitors*

(25 LAM.) 235 Edgewood av.

FRANK EDWIN HOTCHKISS

*Superintendent of the Grounds and Buildings*

220 F.

HARRY K. LOCKARD

*Engineer of the Sheffield Scientific School*

92 Clark st.

JOHN MAUTTE

*Engineer of the Sheffield Scientific School*

32 Dudley st., Highwood

EZRA PECK MERRIAM

*Superintendent of the Divinity Buildings*

108 College st.

JOHN E. MOXLEY

*Machinist of the Sheffield Scientific School*

411 Blohm st., West Haven

JAMES ALLAN MUNRO

*Superintendent of the Buildings and Maintenance Department*

(88 High st.) 88 Lake pl.

JOHN HILL MURRAY

*Head Gardener of the Yale Botanical Garden*

227 Mansfield st.

LILLIE BELLE NASON

*Accountant in the University Steam Department*

84 Park st.

SARA ELIZABETH THACHER

*Accountant in the Buildings and Maintenance Department*

41 Maple st.

## GRADUATE FELLOWS AND SCHOLARS

ROSE ABEL, B.A., <i>University Fellow</i>	74 Lake pl.
HARRY L. AGARD, M.A., <i>Graduate Scholar</i>	206 F.
ALBERT E. AVEY, B.A., <i>Eldridge Fellow in Yale College</i>	211 F.
IDA BARNEY, B.A., <i>Graduate Scholar</i>	346 Whitney av.
HARRY C. BLAGBROUGH, B.A., <i>University Fellow</i>	711 W. D.
CARL W. BLEGEN, B.A., <i>Soldiers' Memorial Fellow in Yale College</i>	192 F.
ALICE F. BLOOD, B.S., <i>University Fellow</i>	37 Howe st.
HARRY G. BROWN, B.A., <i>University Fellow</i>	691 W. D.
JOSEPHINE M. BURNHAM, Ph.B., <i>University Fellow</i>	1304 Chapel st.
FREDERICK W. CHRISTENSEN, M.S., <i>Graduate Scholar</i>	710 W. D.
EVERT M. CLARK, M.A., <i>Graduate Scholar</i>	227 F.
HARRY T. COLLINGS, M.A., <i>University Fellow</i>	352 Crown st.
GEORGE E. COPENHAVER, B.A., <i>Graduate Scholar</i>	140 W.
WILLIAM S. CULBERTSON, B.A., <i>Bidwell Fellow in Yale College</i>	204 F.
PAUL CURTS, M.A., <i>Cuyler Fellow in Yale College</i>	3 Hillhouse av.
GEORGE DAHL, B.A., <i>Eldridge Fellow in Yale College</i>	203 F.
ARTHUR W. DOX, M.A., <i>University Fellow</i>	Storrs
WILLARD H. DURHAM, B.A., <i>Porter Fellow in Yale College</i>	Berlin, Germany
GRAHAM EDGAR, B.S., <i>H. B. Loomis Fellow in Yale College</i>	205 F.
MARION G. ELKINS, B.S., <i>University Fellow</i>	119 Park st.
LEWIS C. EVERARD, B.A., <i>William Borden Fellow in Yale College</i>	A.
HENRY P. FAIRCHILD, B.A., <i>University Fellow</i>	1233 Chapel st.
JAMES F. FERGUSON, M.A., <i>Larned Fellow in Yale College</i>	195 F.
EDNA L. FERRY, B.A., <i>Graduate Scholar</i>	24 Edgewood av.
MORRIS S. FINE, Ph.B., <i>Graduate Scholar</i>	46 Elliott st.
NATHANIEL S. FINEBERG, B.A., <i>Graduate Scholar</i>	399 Elm st.
EVERETT H. FITCH, M.A., <i>Graduate Scholar</i>	148 Whalley av.

FRANK N. FREEMAN, PH.D., <i>Traveling Fellow</i>	Leipsic, Germany
ANDREW C. FURBUSH, M.A., <i>Graduate Scholar</i>	Georgetown
LEE L. HARDING, B.S., <i>Graduate Scholar</i>	78 Lake pl.
YASUJIRO HAYAKAWA, <i>Graduate Scholar</i>	332 York st.
HARRY C. HEATON, B.A., <i>DeForest Fellow in Yale College</i>	Paris, France
WARREN F. HICKERNELL, B.A., <i>Graduate Scholar</i>	98 York sq.
WARREN W. HILDITCH, PH.B., <i>Graduate Scholar</i>	706 W. D.
JOHN W. HILL, M.A., <i>Graduate Scholar</i>	83 William st.
DAVENPORT HOOKER, B.A., <i>Bidwell Fellow in Yale College</i>	83 C.
MCKAY S. HOWARD, B.A., <i>Graduate Scholar</i>	293 York st.
ALBERT W. HULL, B.A., <i>Sloane Fellow in Yale College</i>	120 York st.
HAROLD T. F. HUSTED, B.A., <i>Clark Fellow in Yale College</i>	211 F.
AKIRA IZUMI, <i>Graduate Scholar</i>	83 Mansfield st.
GERARD E. JENSEN, B.A., <i>Graduate Scholar</i>	1076 Chapel st.
GEORGE M. JOHNSON, B.A., <i>Graduate Scholar</i>	366 Whalley av.
JOHN L. JONES, PH.B., <i>Graduate Scholar</i>	314 George st.
MARGARET JUDSON, B.A., <i>University Fellow</i>	37 Howe st.
MIHRAN T. KALAJDZIAN, M.A., <i>Graduate Scholar</i>	619 W. D.
WILLIAM O. KEIRSTEAD, M.A., <i>Graduate Scholar</i>	Montowese
RAMDAS KHAN, L.A., <i>Graduate Scholar</i>	53 Prospect st.
FRANK J. KLINGBERG, M.A., <i>Bulkley Fellow in Yale College</i>	22 Whalley av.
WALTER E. LAGERQUIST, M.A., <i>Graduate Scholar</i>	631 W. D.
JOHN K. LAMOND, M.A., <i>University Fellow</i>	103 Park st.
KENNETH S. LATOURETTE, M.A., <i>Foote Fellow in Yale College</i>	195 F.
HENRY W. LAWRENCE, JR., M.A., <i>Macy Fellow in Yale College</i>	125 Dwight st.
LEONARD M. LIDDLE, B.S., <i>Graduate Scholar</i>	162 S. C. I.
JOHN T. McCANTS, M.A., <i>University Fellow</i>	687 W. D.
MINOR S. MACOMBER, B.S., <i>Graduate Scholar</i>	78 Lake pl.
ELIZABETH MERRILL, M.A., <i>University Fellow</i>	75 Howe st.

JOSEPH C. MESSICK, B.A., <i>University Fellow</i>	376 Elm st.
STEWART L. MIMS, B.A., <i>Scott Hurtt Fellow in Yale College</i>	Paris, France
VICTOR C. MYERS, M.A., <i>University Fellow</i>	213 F.
ROBERT W. NEESER, B.A., <i>College Fellow</i>	1076 Chapel st.
IRENE NYE, B.A., <i>Graduate Scholar</i>	100 Howe st.
LOUIS K. OPPITZ, B.A., <i>Graduate Scholar</i>	134 St. John st.
PHILIP S. ORDWAY, B.A., <i>Graduate Scholar</i>	210 F.
THEOPHILUS S. PAINTER, B.A., <i>Graduate Scholar</i>	140 W.
HOWARD E. PALMER, B.A., <i>Larned Fellow in Yale College</i>	Branford
WALTER H. PALMER, B.A., <i>Graduate Scholar</i>	Branford
NICHOLAS E. PRIEFF, B.A., <i>Graduate Scholar</i>	402 Crown st.
CLYDE PHARR, B.A., <i>Abernethy Fellow in Yale College</i>	997 Yale P. O.
CHESTER A. PHILLIPS, B.A., <i>Foote Fellow in Yale College</i>	276 Elm st.
FREDERICK W. PIERCE, PH.B., <i>University Fellow</i>	373 Crown st.
KATHARINE M. QUINT, M.A., <i>Graduate Scholar</i>	90 Whalley av.
EDWARD H. REISNER, B.A., <i>Larned Fellow in Yale College</i>	214 Yale P. O.
JOSEPH ROSENBAUM, PH.B., <i>Graduate Scholar</i>	68 Park st.
WILLIAM J. RYLAND, B.A., <i>Graduate Scholar</i>	124 Park st.
JAMES C. SANDERSON, B.A., <i>Loomis Fellow in Yale College</i>	733 Yale P. O.
HOWARD A. SECKERSON, M.A., <i>Graduate Scholar</i>	Middletown
WILLIAM E. SELIN, M.A., <i>Graduate Scholar</i>	671 W.D.
BENJAMIN F. STELTER, M.A., <i>Graduate Scholar</i>	22 Whalley av.
NEIL E. STEVENS, B.A., <i>Graduate Scholar</i>	152 Temple st.
MARY D. SWARTZ, B.S., <i>Graduate Scholar</i>	74 Lake pl.
LUDWIG E. SWENSON, B.A., <i>Graduate Scholar</i>	276 Elm st.
ARTHUR I. TAFT, B.A., <i>Graduate Scholar</i>	58 Grove st.
SENJIRO TAKAGI, M.A., <i>Foote Fellow in Yale College</i>	652 E.D.

EDWIN W. TILLOTSON, JR., B.A., <i>Silliman Fellow in Yale College</i>	846 Yale P. O.
LAURENCE V. UPDEGRAFF, B.A., <i>Scott Hurtt Fellow in Yale College</i>	35 High st.
MARTIN L. WACHTEL, B.S., <i>Graduate Scholar</i>	747 Yale P. O.
MARY S. WALKER, M.A., <i>University Fellow</i>	13 Park st.
HENRY F. WALRADT, M.A., <i>Graduate Scholar</i>	417 B.
ARTHUR H. WESTON, B.A., <i>Cuyler Fellow in Yale College</i>	209 F.
*JOHN A. WHITE, B.A., <i>Douglas Fellow in Yale College</i>	
WILLIAM S. WHITTLESEY, B.A., <i>Foote Fellow in Yale College</i>	135 Wall st.
WILLIAM J. WRIGHT, B.A., <i>Foote Fellow in Yale College</i>	120 York st.
HELEN L. YOUNG, B.A., <i>University Fellow</i>	133 Howe st.

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\* Died, November, 1908.

**PART II**

**GOVERNMENT OF THE UNIVERSITY**





# GOVERNMENT OF THE UNIVERSITY

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The legal designation of the Corporation is "THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN," or "YALE UNIVERSITY"; the powers of this body have been granted and confirmed in the following order.

## CHARTER OF THE COLLEGIATE SCHOOL

THE COLLEGIATE SCHOOL OF CONNECTICUT, subsequently named YALE COLLEGE, and now called YALE UNIVERSITY, was founded by the combined action of a few of the ministers in Connecticut, who obtained in October, 1701, a Charter from the Colony Legislature, which runs as follows :—

### AN ACT FOR LIBERTY TO ERECT A COLLEGIATE SCHOOL.

**W**HEREAS several well disposed, and Publick spirited Persons of their sincere regard to & Zeal for upholding & Propagating of the Christian Protestant Religion by a succession of Learned & Orthodox men have expressed by Petition their earnest desires that full Liberty and Priveledge be granted unto certain Undertakers for the founding, suitably endowing & ordering a Collegiate School within his Maj<sup>ties</sup> Colony of Connecticut wherin Youth may be instructed in the Arts & Sciences who thorough the blessing of Almighty God may be fitted for Publick employment both in Church & Civil State. To the intent therefore that all due incouragement be Given to such Pious Resolutions and that so necessary & Religious an undertakeing may be sett forward, supported and well managed :—

BE IT ENACTED by the Govern<sup>r</sup> & Company of the s<sup>d</sup> Colony of Connecticut in General Court now Assembled, And it is enacted & ordained by the Authority of the same that there be & hereby is full Liberty, Right and Priveledge Granted unto the Reverend M<sup>r</sup>. James Noyes of Stonnington, M<sup>r</sup>. Israel Chauncey of Stratford, M<sup>r</sup>. Thomas Buckingham of Saybrook, M<sup>r</sup>. Abraham Pierson of Kennelworth, M<sup>r</sup>. Samuel Mather of Windsor, M<sup>r</sup>. Samuel Andrew of Milford, M<sup>r</sup>. Timothy Woodbridge of Hartford, M<sup>r</sup>. James Pierpont of New Haven, M<sup>r</sup>. Noadiah Russel of Middletown, M<sup>r</sup>. Joseph Webb of Fairfield, being Rev<sup>rd</sup> Ministers of the Gospel & inhabitants within y<sup>e</sup> s<sup>d</sup> Colony,

proposed to stand as Trustees, Partners or Undertakers for the s<sup>d</sup> School, to them and their successors, To ERECT, form, direct, order, establish, improve and att all times in all suitable wayes for the future to encourage the s<sup>d</sup> School in such convenient place or Places, & in such form & manner & under such orders & Rules as to them shall seem meet & most conducive to the afores<sup>d</sup> end thereof, so as such Rules or Orders be not repugnant to the Laws of the Civil Govern<sup>t</sup>, as also to employ the moneys or any other estate which shall be Granted by this Court or otherwise Contributed to that use according to their discretion for the benefit of the s<sup>d</sup> Collegiate School from time to time & att all times henceforward.

And be it further ENACTED by the Authority afores<sup>d</sup> that the before named Trustees, Partners or Undertakers together with such others as they shall associate to themselves (not exceeding the number of Eleven or att any time being less than Seven. Provided also that Persons nominated or associated from time to time to fill up s<sup>d</sup> number be ministers of the gospel inhabiting within this Colony & above the Age of forty years) or the major Part of them, the s<sup>d</sup> Mr. James Noyes, [etc.] undertakers, & of such Persons so chosen & associated as aboves<sup>d</sup> att any time hereafter, HAVE and shall have henceforward the oversight, full & compleat Right, Liberty, power & Priveledge to furnish, direct, manage, order, improve & encourage from time to time & in all times hereafter the s<sup>d</sup> Collegiate School so Erected & formed by them in such ways, orders & manner & by such Persons, Rector or Master and officers appointed by them, as shall according to their best discretion be most conducive to attaine the afores<sup>d</sup> mentioned end thereof. . . .

It is also further Enacted by the Authority afores<sup>d</sup> that the s<sup>d</sup> Undertakers & Partners & their successors be & hereby are further empowered to have, accept, acquire, purchase or otherwise lawfully enter upon Any Lands, Tenements & Hereditam<sup>ts</sup> to the use of the s<sup>d</sup> School, not exceeding the value of five hundred Pounds p<sup>r</sup> Anñ, & any Goods, Chattels, Sum or Sums of money whatsoever as have heretofore already been Granted, bestowed, bequeathed or given, or as from time to time shall be freely given, bequeathed, devised or settled by any Person or Persons whatsoever upon & to & for the use of y<sup>e</sup> s<sup>d</sup> School towards the founding, erecting or endowing the same, & to sue for, Recover & receiv all such Gifts, Legacies, bequests, annuities, Rents, issues & profits arising therefrom & to imploy the same accordingly, & out of y<sup>e</sup> estate, Revenues, Rents, profits, incomm<sup>s</sup> accruing & belonging to s<sup>d</sup> School to support & pay as the s<sup>d</sup> Undertakers shall agree & see cause, the s<sup>d</sup> Rector or Master, Tutors, Ushers or other officers their Respective annual Salaries or Allowances. As also for the encouragem<sup>t</sup> of the Students to grant degrees or Licences as they or those deputed by them shall see cause to order & appoint.

Under this Charter the Collegiate School was begun in November, 1701, at Saybrook, where it continued until its removal to New Haven, in October, 1716. In September, 1718, the name of YALE COLLEGE was given by the Trustees to the School, in honor of the benefactions of ELIHU YALE, of London, lately Governor of the East India Company's settlement at Madras.

#### ADDITIONAL ACT OF 1723

In 1723 an "ACT IN EXPLANATION OF AND ADDITION TO THE ACT FOR ERECTING A COLLEGIATE SCHOOL" was passed by the General Assembly, with the following provisions;—

WHEREAS Pursuant to the Powers and Priviledges granted to Certain Trustees for Erecting a Collegiate School in this Colony Entituled an Act for a Collegiate School, the Said Trustees have Erected the said School in the Town of New-Haven which School is now known by the Name of Yale Colledge; And Whereas it appears to this Assembly that an Explanation and Enlargement of the powers and priviledges granted by Said Act is necessary for the Carrying on the Affairs of the Said Colledge, for want of which it has Laboured under great difficulties very much to the prevention of that Order and good Education which is to be desired there:

Bee it therefore Enacted by the Governour, Council and Representatives in Generall Court assembled and by the Authority of the Same that the Said Act which provides that the Number of the Said Trustees be not under Seven nor above Eleven is not to be Understood or Taken so as to be restrictive of the power of the Said Trustees Never to Choose any person to be a Trustee, when there is of Such persons as have been Chosen and Acted as Trustees Eleven persons Living in the Colony or Elsewhere, but that in Case any person so Chosen be by Providence Incapacitated from attending that Service or shall himself decline the Same thro' the Necessity of his own Affairs or for any other such Reason as he shall Judge requisite, the Trustees in any of their Meetings Lawfully Called may be Understood to have and it is hereby Enacted and declared that they shall be Taken to have full power by the Majority of Such Meeting to proceed to the Choice of Another Trustee in the Room of any such person. And it is hereby further declared and Enacted to be the True Intent and Meaning of the Act afores<sup>d</sup> that the said Trustees shall be Impowered and they are hereby declared to have power to Meet Together for Considering, Advising

about and Resolving upon all Matters belonging to the Trust of the Said Colledge committed unto them as afores<sup>d</sup> and to Agree and Conclude, Order and determine Concerning them by the Majority of the Said Meeting, and by the same Majority to Choose and Appoint a Clerk who shall, in a fair book prepared for that End, Register and Carefully preserve the Acts of all such Meetings.

And WHEREAS it has been doubted what Number of the Said Trustees may be Lookt upon as a Sufficient or full Meeting, Inasmuch as there is not in the afores<sup>d</sup> Act any Express mention made of any Meeting of the said Trustees; It is therefore to prevent all Scruple of that kind for the future hereby provided and declared that due Notice being given to the Trustees by Consent of any three of them of a Meeting of the Trustees desired at any Time or place, and Seven or more of the Trustees present at such Time and place shall be Esteemed a full Meeting. And it is hereby declared and Enacted that in all such Meetings, so Called, or Otherwise as the said Trustees in any such Meeting shall agree, all affairs under the Care of the said Trustees shall be determined by the majority of such meeting.

And WHEREAS it has been found Inconvenient that in the Election of Persons to be Trustees, the Trustees Election by the afores<sup>d</sup> Act should be Limited and restrained so as that the Person who shall be Chosen must Necessarily be forty Years of age; It is hereby declared and Enacted that for the future the said Trustees in any Election of a person into that Trust shall not be Esteemed or held Obligated by said Act to choose such a person as shall be above forty Years of Age, but may Choose such a person otherwise Qualified According to said Act, Provided he is thirty Years of Age. And it is further hereby Allowed, Enacted, Granted and Provided that whosoever shall be Chosen and made a Rector of the said Colledge shall by Virtue thereof become a Trustee of the same and be so Esteemed and Taken during his continuance in the said Rectorship.

#### CHARTER OF YALE COLLEGE

In 1745 a thoroughly revised Charter was granted by the Assembly; the provisions of permanent interest are as follows:—

*An ACT for the more full and complete Establishment of YALE COLLEGE in NEW HAVEN, and for enlarging the Powers and Privileges thereof.*

WHEREAS upon the Petition of several well-disposed and public-spirited Persons expressing their desire that full Liberty and Privilege might be granted unto Certain Undertakers for the founding, suitably endowing and ordering a *Collegiate School*, within this Colony,

wherein Youth might be instructed in the Arts and Sciences, the Governor and Company of the said Colony in General Court assembled at *New Haven*, on the Ninth Day of October, in the Year of our Lord 1701, Granted unto the Rev'd Messrs. *James Noyes* [etc.], who were proposed to stand as Trustees, Partners, or Undertakers for the Society, and to their Successors, full Liberty, Right and Privilege to erect, form, direct, order, establish, improve, and at all Times in all suitable Ways to encourage the said School in some convenient Place in this Colony, and granted sundry Powers and Privileges for the attaining the End aforesaid ;

*And Whereas* the said Trustees, Partners or Undertakers in pursuance of the aforesaid Grant, Liberty and License, founded a *Collegiate School* at *New Haven*, known by the Name of YALE COLLEGE, which has received the favorable Benefactions of many Liberal and piously disposed Persons, and under the Blessing of Almighty God has trained up many worthy Persons for the Service of God in the State as well as in the Church ;

*And Whereas* the General Court of this Colony assembled at *New Haven*, the Tenth day of October, in the Year of our Lord 1723, did explain and enlarge the aforesaid Powers and Privileges granted to the aforesaid Partners, Trustees or Undertakers and their Successors, for the Purpose aforesaid ; as by the respective Acts, reference thereto being had, more fully and at large may appear ;

*And Whereas* the Rev'd Messrs. *Thomas Clap*, *Samuel Whitman*, *Jared Eliot*, *Ebenezer Williams*, *Jonathan Marsh*, *Samuel Cooke*, *Samuel Whittelsey*, *Joseph Noyes*, *Anthony Stoddard*, *Benjamin Lord*, and *Daniel Wadsworth*, the present Trustees, Partners and Undertakers of the said School, and Successors of those beforementioned, have petitioned, that the said School, with all the Rights, Powers, Privileges and Interests thereof, may be confirmed, and that such other additional Powers and Privileges may be granted as shall be necessary for the Ordering and Managing the said School, in the most advantageous and beneficial Manner for the promoting all good Literature in the present and succeeding Generations : Therefore,

THE GOVERNOR and COMPANY of his Majesty's said English Colony of *Connecticut* in General Court assembled, this Ninth Day of *May*, in the Year of our Lord 1745, enact, ordain, and declare, and by these Presents it is enacted, ordained, and declared—

That the said *Thomas Clap* [etc.], shall be an *Incorporate Society* or *Body Corporate and Politic*, and shall hereafter be called and known by the name of THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN, and that by the same Name they and their Successors shall and may have perpetual Succession, and shall and may be Persons in the Law capable to plead and be impleaded, defend and be defended, and

answer and be answered unto; and also to have, take, possess, acquire, purchase, or otherwise receive Lands, Tenements, Hereditaments, Goods, Chattels, or other Estates, and the same Lands, Tenements, Hereditaments, Goods, Chattels, or other Estates to grant, demise, lease, use, manage or improve for the Good and benefit of the said *College*, according to the Tenor of the Donation, and their discretion.

That all Gifts, Grants, Bequests, and Donations of Lands, Tenements, or Hereditaments, of Goods and Chattels heretofore made to or for the Use, Benefit and Advantage of the *Collegiate School* aforesaid, whether the same be expressed to be made to the President or Rector, and to the rest of the Incorporate Society of *Yale College*, or to the Trustees or Undertakers of the *Collegiate School* in *New Haven*, or to the Trustees by any other Name, Style or Title whatsoever, whereby it may be clearly known and understood that the true Intent and Design of such Gifts, Grants, Bequests and Donations, was to or for the Use, Benefit and Advantage of the Collegiate School aforesaid, and to be under the Care and Disposal of the Governors thereof, shall be confirmed, and the same hereby are confirmed, and shall be and remain to, and be vested in the President and Fellows of the *College* aforesaid, and their Successors, as to the true and lawful Successors of the original Grantees.

That the said PRESIDENT AND FELLOWS and their Successors shall and may hereafter have a common Seal, to serve and use for all Causes, Matters and Affairs of them and their Successors, and the same Seal to alter, break, and make new as they shall think fit.

That the said THOMAS CLAP shall be, and he is hereby established the present PRESIDENT, and the said *Samuel Whitman* [etc.] shall be, and they are hereby established the present FELLOWS of the said College, and that they and their Successors shall continue in their respective Places during Life, or until they or either of them shall resign, or be removed, or displaced, as in this Act is hereafter expressed.

That there shall be a General Meeting of the *President* and *Fellows* of said *College*, in the College Library on the second Wednesday of September annually, or at any other Time and Place which they shall see Cause to appoint, to consult, advise and act in and about the Affairs and Business of the said College; and that on any special Emergency, the President and two of the Fellows, or any four of the Fellows, may appoint a Meeting of the said College, provided they give Notice thereof to the Rest by Letters sent and Left with them, or at the Places of their respective Abode, five Days before such Meeting; and that the President and six Fellows, or in Case of the Death, Absence, or Incapacity of the President, seven Fellows, convened as aforesaid (in which Case the eldest Fellow shall preside), shall be deemed a Meeting of the President and Fellows of said College, and that in all the said Meetings, the Major Vote of the Members present shall be deemed the Act of the

Whole, and where an Equivote happens, the President shall have a casting vote.

That the President and Fellows of the said College and their Successors, in any of their Meetings assembled as aforesaid, shall and may from Time to Time, as Occasion shall require, elect and appoint a President or Fellow in the Room and Place of any President or Fellow who shall die, resign, or be removed from his office, Place or Trust (whom the said Governor and Company hereby declare, for any Misdemeanor, Unfaithfulness, Default or Incapacity, shall be removable by the President and Fellows of the said College; Six of them, at least, concurring in such Act); and shall have Power to appoint a Scribe or Register, a Treasurer, Tutors, Professors, Steward, and all such other Officers and Servants, usually appointed in Colleges or Universities, as they shall find necessary and think fit to appoint for the promoting good Literature, and the well ordering and managing the Affairs of said College; and them or any of them, at their Discretion, to remove; and to prescribe and administer such Forms of Oaths (not being contrary to the Laws of England or of this Colony) as they shall think proper, to be administered to all the Officers and Instructors of the said College, or to such and so many of them as they shall think proper, for the faithful Execution of their respective Places, Offices and Trusts.

That the President and Fellows shall have the Government, Care and Management of the said College and all the Matters and Affairs thereunto belonging, and shall have Power from Time to Time, as Occasion shall require, to make, ordain and establish all such wholesome and reasonable Laws, Rules and Ordinances, not repugnant to the Laws of England, nor the Laws of this Colony, as they shall think fit and proper for the Instruction and Education of the Students, and Ordering, Governing, Ruling and Managing the said College, and all Matters, Affairs, and Things thereunto belonging, and the same to Repeal and alter as they shall think fit; which shall be laid before this Assembly as often as required, and may also be repealed or disallowed by this Assembly when they shall think proper.

That the President of said College, with the Consent of the Fellows, shall have Power to give and confer all such Honors, Degrees or Licenses as are usually given in Colleges or Universities, upon such as they shall think worthy thereof.

#### LATER ACTS OF THE LEGISLATURE

In 1792 a grant of money from the State of Connecticut was received, upon the condition that certain State officials should become members of the Board of Fellows, as below expressed:

In case this grant shall be accepted, in manner as hereinafter provided, the Governor, Lieutenant Governor, and six senior assistants in the Council\* of this State, for the time being, shall ever hereafter, by virtue of their said offices, be trustees or fellows of said College; and shall together with the present President and Fellows of said College, and their successors, constitute one corporation, by the name and style mentioned in the charter of said College; and shall have and enjoy the same powers, privileges, and authority, in as full and ample a manner, as though they had been expressly named and included in said charter; And that in case of vacancy, by the death, or resignation, or in any other way, of any of the present Fellows of said College, and their successors, every such vacancy shall forever hereafter be supplied by them, and their successors, by election, in the same manner as though this act had never passed.

In the State Constitution, adopted in 1818, the privileges conferred by the Charter were reaffirmed, as follows:—

ARTICLE VIII, SECT. 1.

The charter of Yale College, as modified by agreement with the Corporation thereof, in pursuance of an Act of the General Assembly, passed in May, 1792, is hereby confirmed.

In 1872, at the request of the Corporation, an Act was passed by the General Assembly, providing (as follows) for the substitution of graduates in the place of the six senators among the Fellows:—

SECTION 1.—All graduates of the first degree, of five or more years' standing, in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, on the day next preceding the public commencement day of said College, in the year of our Lord 1872, cast their votes, under such regulations as the President and Fellows may prescribe, for six persons to be chosen from among such graduates; and the six persons who shall be found to be elected by a plurality of the votes cast, shall be the Fellows of Yale College in the stead of the six senior senators of the State, and shall have all the rights, duties, and privileges as Fellows which are now by law conferred upon said senators. In case of an equality of votes between two or more candidates, the person who shall hold the said office of Fellow shall be designated by lot from among the persons receiving such equality of votes.

\* Changed in 1819 to the six senior senators.



**SECTION 2.**—The Fellows thus elected shall enroll themselves by lot in six classes, one holding the office for six years, another for five years, another for four years, another for three years, another for two years, and another for one year, eligible for re-election; and every year as a vacancy occurs, all graduates of the first degree, of five or more years' standing, in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, upon the day next preceding commencement day, in the manner heretofore prescribed, elect by a plurality of votes a person to fill the vacancy, and hold the office of Fellow for a period of six years, eligible for re-election; and so whenever a vacancy shall occur from death, resignation, or any other cause, such graduates may elect a person at the next commencement to fill the office of Fellow for the remainder of the term in which a vacancy has occurred. The official year of such Fellows shall end with the day next preceding each commencement day.

In March, 1887, an Act passed the General Assembly of the State, authorizing the use of the title "YALE UNIVERSITY" by the President and Fellows of Yale College, and providing that gifts to, contracts with, conveyances to or by, and other acts affecting said Corporation by either of the names specified shall be valid.

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#### GOVERNMENT OF THE DIFFERENT DEPARTMENTS

The courses of study offered in the University are comprehended in four Departments, under the control of the Corporation, each Department being also under the administration of a distinct Faculty of instruction. The Departments are as follows:—

THE DEPARTMENT OF PHILOSOPHY AND THE ARTS;

THE DEPARTMENT OF THEOLOGY;

THE DEPARTMENT OF MEDICINE;

THE DEPARTMENT OF LAW.

Under the first-named Department are included two separately organized sections in which instruction for undergraduates is provided, viz:—

THE ACADEMICAL DEPARTMENT, and

THE SHEFFIELD SCIENTIFIC SCHOOL;

also, THE SCHOOL OF THE FINE ARTS, the DEPARTMENT OF MUSIC, and the FOREST SCHOOL, each with a special organization, and THE GRADUATE SCHOOL, under the combined Faculty of the Department.

It is to be understood that the courses of study above described are open to men only, except when both sexes are specifically included.

The LIBRARY, the PEABODY MUSEUM OF NATURAL HISTORY, the OBSERVATORY, and the BOTANICAL GARDEN are severally organized independently of the special Departments, and are designed to contribute, in their appropriate spheres, to the instruction and advancement of the whole institution. These Institutions and others connected with the University, and open to all of its students, are described in Part IV of this Catalogue.

**PART III**

**DEPARTMENTS OF INSTRUCTION**



ACADEMICAL DEPARTMENT  
(YALE COLLEGE)  
FACULTY

ARTHUR TWINING HADLEY, LL.D., *President*

HENRY PARKS WRIGHT, PH.D., LL.D., *Dunham Professor of the Latin Language and Literature, and Dean of the College Faculty*

---

Rev. CORNELIUS LADD KITCHEL, M.A., *Secretary of the Bureau of Appointments*

ALFRED KINDRED MERRITT, B.A., *Registrar of the College Faculty*

THOMAS ALLEN TULLY, B.A., *Recorder of the College Faculty*

HENRY MINOTT OSBORN, *College Bursar*

---

ARTHUR MARTIN WHEELER, LL.D., *Durfee Professor of History, Emeritus, and Lecturer on European History*

ARTHUR WILLIAMS WRIGHT, PH.D., *Professor of Experimental Physics, Emeritus*

EUGENE LAMB RICHARDS, M.A., *Professor of Mathematics, Emeritus*

TRACY PECK, LL.D., *Professor of the Latin Language and Literature, Emeritus*

WILLIAM GRAHAM SUMNER, LL.D., *Pelotiah Perit Professor of Political and Social Science*

CHARLES HENRY SMITH, LL.D., *Larned Professor of American History*

HENRY AUGUSTIN BEERS, M.A., *Professor of English Literature*

BERNADOTTE PERRIN, PH.D., LL.D., *Lampson Professor of Greek Literature and History*

EDWARD SALISBURY DANA, PH.D., *Professor of Physics, and Curator of the Mineralogical Collection*

FRANK AUSTIN GOOCH, PH.D., *Professor of Chemistry, and Director of the Kent Chemical Laboratory*

WILLIAM BEEBE, M.A., *Professor of Mathematics, and Instructor in Astronomy*

ANDREW WHEELER PHILLIPS, PH.D., *Professor of Mathematics, and Dean of the Graduate School*

GEORGE BURTON ADAMS, PH.D., LITT.D., *Professor of History*

EDWARD PARMELEE MORRIS, L.H.D., *Professor of the Latin Language and Literature*

HENRY ROSEMAN LANG, PH.D., *Benjamin F. Barge Professor of the Romance Languages and Literature*

ROBERT LOUIS SANDERSON, M.A., *Assistant Professor of French*

THOMAS DWIGHT GOODELL, PH.D., *Professor of the Greek Language and Literature*

ARTHUR HUBBELL PALMER, M.A., *Professor of the German Language and Literature*

FREDERICK WELLS WILLIAMS, B.A., *Assistant Professor of Modern Oriental History*

HORATIO MCLEOD REYNOLDS, M.A., *Talcott Professor of the Greek Language and Literature*

FREDERICK MORRIS WARREN, PH.D., L.H.D., *Street Professor of Modern Languages*

GEORGE MARTIN DUNCAN, LL.D., *Professor of Logic and Metaphysics*

GUSTAV GRUENER, PH.D., *Professor of German*

ALBERT EUGENE CURDY, PH.D., *Assistant Professor of French*

CHARLTON MINER LEWIS, PH.D., *Emily Sanford Professor of English Literature*

WILLIAM LYON PHELPS, PH.D., *Lampson Professor of English Literature*

ERNEST WILLIAM BROWN, SC.D., F.R.S., *Professor of Mathematics*

GEORGE LINCOLN HENDRICKSON, L.H.D., *Professor of the Latin Language and Literature*

IRVING FISHER, PH.D., *Professor of Political Economy*

JAMES PIERPONT, PH.D., *Professor of Mathematics*

HANNS OERTEL, PH.D., *Professor of Linguistics and Comparative Philology*

CHARLES SEARS BALDWIN, PH.D., *Assistant Professor of Rhetoric*

PHILIP EMBURY BROWNING, PH.D., *Assistant Professor of Chemistry*

OLIVER HUNTINGTON RICHARDSON, PH.D., *Assistant Professor of History*

CHARLES FOSTER KENT, PH.D., *Woolsey Professor of Biblical Literature*

CHARLES MONTAGUE BAKEWELL, PH.D., *Sheldon Clark Professor of Philosophy*

ROSS GRANVILLE HARRISON, PH.D., M.D., *Bronson Professor of Comparative Anatomy*

KENNETH MCKENZIE, PH.D., *Assistant Professor of Italian*

HENRY ANDREWS BUMSTEAD, PH.D., *Professor of Physics, and Director of the Sloane Physical Laboratory*

JAMES W. D. INGERSOLL, PH.D., *Assistant Professor of Latin*

- JOSEPH BARRELL, PH.D., *Professor of Structural Geology*  
DAVID ALBERT KREIDER, PH.D., *Assistant Professor of Physics*  
HENRY CROSBY EMERY, PH.D., *Professor of Political Economy*  
CLIVE DAY, PH.D., *Professor of Economic History*  
BERTRAM BORDEN BOLTWOOD, PH.D., *Assistant Professor of Physics*  
MAX FARRAND, PH.D., *Professor of History*  
RICHARD SWANN LULL, PH.D., *Assistant Professor of Vertebrate Paleontology, and Associate Curator of the Collection in Vertebrate Paleontology*  
CHALFANT ROBINSON, PH.D., *Instructor in History*  
EDWARD BLISS REED, PH.D., *Assistant Professor of English*  
WILLIAM BACON BAILEY, PH.D., *Assistant Professor of Political Economy*  
PAUL VICTOR CHRISTOPHER BAUR, PH.D., *Assistant Professor of Classical Archaeology*  
CHARLES HUBBARD JUDD, PH.D., *Professor of Psychology, and Director of the Psychological Laboratory*  
JOHN WESLEY WETZEL, PH.B., *Assistant Professor of Public Speaking*  
HORACE SCUDDER UHLER, PH.D., *Instructor in Physics*  
ALBERT GALLOWAY KELLER, PH.D., *Professor of the Science of Society*  
HOLLON AUGUSTINE FARR, PH.D., *Assistant Professor of German*  
RUDOLPH SCHEVILL, PH.D., *Assistant Professor of the Spanish Language and Literature*  
HERBERT ERNEST GREGORY, PH.D., *Silliman Professor of Geology*  
HERBERT EDWIN HAWKES, PH.D., *Assistant Professor of Mathematics*  
EDWARD LEWIS DURFEE, B.A., *Instructor in History*  
JOHN MILTON BERDAN, PH.D., *Assistant Professor of Rhetoric*  
CHARLES UPSON CLARK, PH.D., *Assistant Professor of Latin*  
ALBERT EDWARD GUBELMANN, PH.D., *Instructor in German*  
EMERSON DAVID FITE, PH.D., *Instructor in History*  
IRVILLE CHARLES LECOMPTE, PH.D., *Instructor in French*  
ELLSWORTH HUNTINGTON, M.A., *Instructor in Geography*  
HENRY BURT WRIGHT, PH.D., *Assistant Professor of Roman History and Latin Literature*  
FRED ROGERS FAIRCHILD, PH.D., *Assistant Professor of Political Economy*  
WILMOT HAINES THOMPSON, JR., PH.D., *Instructor in Greek*  
SYDNEY KNOX MITCHELL, PH.D., *Instructor in History*

JOHN PEASE NORTON, PH.D., *Assistant Professor of Political Economy*

RALPH GIBBS VANNAME, PH.D., *Instructor in Chemistry*

CHAUNCEY BREWSTER TINKER, PH.D., *Assistant Professor of English*

CURTIS HOWE WALKER, PH.D., *Instructor in History*

ROSWELL PARKER ANGIER, PH.D., *Assistant Professor of Psychology*

GEORGE MERRICK BAKER, PH.D., *Instructor in German*

ELBERT NEVIUS SEBRING THOMPSON, PH.D., *Instructor in Rhetoric*

WILLIAM ERNEST HOCKING, PH.D., *Assistant Professor of Philosophy*

WILLIAM BRIAN HOOKER, M.A., *Instructor in Rhetoric*

KELLEY REES, PH.D., *Instructor in Greek*

AVARD LONGLEY BISHOP, PH.D., *Assistant Professor of the Science  
of Society*

AXEL EBENEZER VESTLING, PH.D., *Instructor in German*

EDWARD HERBERT CAMERON, PH.D., *Instructor in Psychology*

ROBERT LIVINGSTON SCHUYLER, M.A., *Instructor in History*

LESTER WILLIAM ZARTMAN, PH.D., *Instructor in Insurance and Eco-  
nomics*

CLARENCE WHITTLESEY MENDELL, M.A., *Instructor in Latin*

LAWRENCE MASON, B.A., *Instructor in English*

RAYMOND THOMPSON HILL, M.A., *Instructor in French*

SAMUEL BURDETT HEMINGWAY, PH.D., *Instructor in English*

ISAIAH BOWMAN, B.S., *Instructor in Geography*

WILLIAM ALLEN DRUSHEL, PH.D., *Instructor in Chemistry*

THEODORE HARDING BOGGS, PH.D., *Instructor in Commercial Geography*

ROOSEVELT PRUYN WALKER, M.A., *Instructor in English*

HORACE THOMAS BURGESS, M.A., *Instructor in Mathematics*

WILLIAM PITT McCUNE, M.A., *Instructor in English*

ERNEST WILSON SHELDON, B.A., *Instructor in Mathematics*

#### ADDITIONAL INSTRUCTORS

WILLIAM GILBERT ANDERSON, M.D., M.A., *Director of the Gymnasium*

CLARENCE EDWARD ANDREWS, M.A., *Assistant in Rhetoric*

KAN-ICHI ASAKAWA, PH.D., *Instructor in the History of Japanese  
Civilization, and Curator of the Japanese and Chinese Collections*

Rev. BENJAMIN WISNER BACON, D.D., LITT.D., LL.D., *Buckingham  
Professor of New Testament Criticism and Interpretation, and  
Acting Pastor of the University Church*



HON. SIMEON EREN BALDWIN, LL.D., *Professor of American Constitutional and Private International Law*

CHARLES JOSEPH BARTLETT, M.D., *Professor of Pathology*

HIRAM BINGHAM, PH.D., *Lecturer on Latin-American History*

SETH DANIELS BINGHAM, JR., B.A., MUS.B., *Assistant in Organ-Playing*

ROWLAND SHERWOOD BOSWORTH, B.A., *Assistant in the Kent Chemical Laboratory*

CONRADIN BRINKMANN, *Lecturer on Conversational German*

HARRY GUNNISON BROWN, B.A., *Assistant in Economics*

GUY STEVENS CALLENDER, PH.D., *Professor of Political Economy*

RUSSELL HENRY CHITTENDEN, PH.D., LL.D., SC.D., *Professor of Physiological Chemistry, and Director of the Sheffield Scientific School*

REV. RAYMOND GILMORE CLAPP, M.A., *Instructor in Biblical Literature, and Director of Religious Work in the Divinity School*

WESLEY ROSWELL COE, PH.D., *Assistant Professor of Comparative Anatomy*

LEON JACOB COLE, PH.D., *Instructor in Zoology*

ALBERT STANBURROUGH COOK, PH.D., L.H.D., LL.D., *Professor of the English Language and Literature*

ARTHUR LINTON CORBIN, B.A., LL.B., *Assistant Professor of Contracts*

WILLIAM SMITH CULBERTSON, B.A., *Assistant in Anthropology*

REV. EDWARD LEWIS CURTIS, PH.D., D.D., *Holmes Professor of the Hebrew Language and Literature, and Acting Dean of the Divinity School*

RICHARD HENRY DANA, JR., B.A., B.S., *Instructor in Architecture*

JOHN WARREN EDGERTON, M.A., LL.B., *Instructor in Mercantile Law, and Secretary of the Law Faculty*

ALEXANDER WILLIAM EVANS, PH.D., M.D., *Eaton Professor of Botany*

HENRY PRATT FAIRCHILD, B.A., *Assistant in Anthropology*

HARRY BURR FERRIS, M.D., *Hunt Professor of Anatomy*

WILLIAM RUTHVEN FLINT, M.A., *Assistant in the Kent Chemical Laboratory*

ARTHUR HARMOUNT GRAVES, PH.D., *Instructor in Botany*

WILLIAM EDWIN HAESCHE, MUS.B., *Instructor in Instrumentation*

FRED HARVEY HEATH, B.S., *Assistant in the Kent Chemical Laboratory*

YANDELL HENDERSON, PH.D., *Assistant Professor of Physiology*

EDWARD WASHBURN HOPKINS, PH.D., LL.D., *Professor of Sanskrit and Comparative Philology*

ALBERT WALLACE HULL, B.A., *Assistant in the Sloane Physical Laboratory*

GEORGE EDWARD IDE, M.A., *Lecturer on Insurance*

HARRY BENJAMIN JEPSON, MUS.B., M.A., *Professor of Applied Music and University Organist*

HENRY STANLEY KNIGHT, *Assistant Professor of Applied Music and Instructor in Pianoforte-Playing*

BEVERLY WAUGH KUNKEL, PH.D., *Instructor in Biology*

JULIUS ANSGAR LARSEN, B.A., *Assistant in Geology*

LEE OSCAR LAWRIE, *Instructor in Modeling*

JOHN BODINE LUNGER, *Lecturer on Insurance*

MAX SOLOMON MANDELL, *Instructor in Russian*

WILLIAM CROSBY MARSHALL, M.E., C.E., *Assistant Professor of Drawing and Descriptive Geometry*

LAFAYETTE BENEDICT MENDEL, PH.D., *Professor of Physiological Chemistry*

HORATIO WILLIAM PARKER, M.A., MUS.D., *Battell Professor of the Theory of Music, and Dean of the Department of Music*

HON. EPAPHRODITUS PECK, LL.B., *Instructor in Evidence, Practice, Procedure, and Domestic Relations*

CLAUDE CLAIR PERKINS, B.A., *Assistant in the Kent Chemical Laboratory*

CHARLES RABOLD, *Instructor in Singing*

CHARLES BRINCKERHOFF RICHARDS, M.A., *Higgin Professor of Mechanical Engineering*

EDWIN JAY ROBERTS, B.S., *Assistant in the Kent Chemical Laboratory*

SAMUEL SIMONS SANFORD, M.A., *Professor of Applied Music*

CHARLES SCHUCHERT, M.A., *Professor of Paleontology, Curator of the Geological Collection, and Professor of Historical Geology in the Sheffield Scientific School*

LEO SCHULZ, *Instructor in Violoncello-Playing*

DAVID STANLEY SMITH, B.A., MUS.B., *Instructor in the Theory of Music, and Secretary of the Department of Music*

E. HERSHEY SNEATH, PH.D., LL.D., *Lecturer on English Philosophical Literature*

EDWIN CASSIUS TAYLOR, *Instructor in Drawing*

THOMAS SMITH TAYLOR, B.A., *Assistant in the Sloane Physical Laboratory*

EDWARD THORSTENBERG, PH.D., *Instructor in German and Swedish*

EDWARD WARD TILLOTSON, JR., B.A., *Assistant in the Kent Chemical Laboratory*

CHARLES CUTLER TORREY, PH.D., D.D., *Professor of the Semitic Languages*

ISIDOR TROOSTWYK, *Assistant Professor of Applied Music and Instructor in Violin-Playing*

WILLIAM HENRY TWENHOFEL, B.A., *Assistant in Geology*

FRANK PELL UNDERHILL, PH.D., *Assistant Professor of Physiological Chemistry*

BURTON MERRILL VARNEY, B.A., *Assistant in Physical Geography*

HIRAM LEE WARD, B.A., *Assistant in the Kent Chemical Laboratory*

GEORGE DUTTON WATROUS, D.C.L., *Professor of Torts*

JOHN FERGUSON WEIR, M.A., N.A., *William Leffingwell Professor of Painting and Design, and Director of the School of the Fine Arts*

FRANK ELBERT WHELOCK, B.A., *Assistant in the Sloane Physical Laboratory*

LEWIS WILLIAMS, *Instructor in Pianoforte-Playing*

ROBERT DAY WILLIAMS, M.A., *Assistant in Psychology*

LORANDE LOSS WOODRUFF, PH.D., *Instructor in Biology*

THEODORE SALISBURY WOOLSEY, LL.D., *Professor of International Law*

JOHN WURTS, M.L., M.A., *LaFayette S. Foster Professor of the English Common Law*

## · OTHER OFFICERS

GEORGE HANFORD BUTLER, *Cashier in the Bursar's Office*

EVERT MORDECAI CLARK, B.A., *Proctor*

CLIFFORD PIERPONT FOOTE, *Clerk in the Bursar's Office*

WILLIAM DANIEL HENNIG, *Superintendent of College Janitors*

FRANK EDWIN HOTCHKISS, *Superintendent of Grounds and Buildings*

Mrs. CHARLES TODD LINCOLN, *Private Secretary to the Dean*

EDWARD CYRUS MILLER, B.A., *Proctor*

GEORGE ELWOOD NICHOLS, B.A., *Proctor*

CECIL WRIGHT, *Proctor*

## STANDING COMMITTEES

*On Admission*—Professor GRUENER, Chairman; Mr. MERRITT, Secretary; Professors PERRIN, GOODELL, WARREN, INGERSOLL, HAWKES, and TINKER.

*On Freshman Class Administration*—Professor FARR, Chairman; Professor H. B. WRIGHT, Dr. W. H. THOMPSON, JR., Dr. MITCHELL, Dr. VANNAME, and Mr. MENDELL.

*On Sophomore Class Administration*—Professors REYNOLDS, CURDY, INGERSOLL, KREIDER, DAY, and EMERY, Dr. ROBINSON, Professors REED, SCHEVILL, and BERDAN, Dr. FITE, Dr. C. H. WALKER, Dr. BAKER, Dr. E. N. S. THOMPSON, Mr. HOOKER, and Mr. BOWMAN.

*On the Course of Study*—Professors E. S. DANA, MORRIS, and FISHER.

*On Schedules, the Announcement of Courses, and the College Catalogue*—Professor INGERSOLL, Mr. MERRITT, and Dr. E. N. S. THOMPSON.

*On Changes in the Choice of Courses*—Professor BEEBE, Mr. MERRITT, and Professor FARR.

*On Enrollment*—Professors GOOCH, G. B. ADAMS, and DUNCAN.

*On Semi-Annual Examinations*—Professors INGERSOLL, F. R. FAIRCHILD, and BISHOP.

*On Honors*—Professor GOOCH, Chairman; Professor C. H. SMITH, and Professor PALMER.

*On Undergraduate Scholarships*—Professors GOODELL, DUNCAN, and EMERY.

*On the B.A. Degree*—Professors C. H. SMITH, DUNCAN, and LEWIS.

*On the M.A. Degree*—Professors C. H. SMITH and PHILLIPS.

*On Campus Regulations*—Professors GRUENER, REED, FARR, and TINKER.

*On Public Entertainments*—Professors REYNOLDS, EMERY, FARR, C. U. CLARK, and H. B. WRIGHT.

*On the College Choir*—Professors PERRIN, PARKER, and PHELPS.

*On the Andrews Memorial Library*—Professor GOODELL, Chairman; Mr. KITCHEL, and Professor GRUENER.

*On Ways and Means*—Professors H. P. WRIGHT, E. S. DANA, WARREN, and FISHER.

## HISTORY OF THE COLLEGE

From the date of the original Charter, in 1701, a course of instruction leading to the degree of Bachelor of Arts has been continuously offered at the College. At first only three years of undergraduate study were required, but before 1710 a four years' course was provided, which has since been maintained.

Until 1813, when a Medical School was organized, no other course of study for a degree was marked out at Yale College. After the incorporation of the Medical Institution (as it was originally styled) the older Department began to be called the Academical Institution (or Department), and it continued to be so named until at length, with the growth of other Schools about it and the expansion of the whole into Yale University, it recovered its original title of Yale College, which is now applied distinctively to the Academical Department of the University.

## TERMS OF ADMISSION

### SUBJECTS OF THE EXAMINATION FOR ADMISSION TO THE FRESHMAN CLASS

Candidates are admitted to the Freshman class on passing a satisfactory examination in the subjects listed in detail below, under the following six heads: (i) Latin, (ii) Greek or Substitutes for Greek, (iii) French or German, (iv) English, (v) Mathematics, (vi) Ancient History.

In 1909, and thereafter until further notice, candidates may meet the requirements also by passing with satisfactory grades the equivalent subjects in the examination set by the College Entrance Examination Board and presenting their Board certificates for credit. (A candidate may take his preliminary examination with the Board and his final in the Yale examination, or *vice versa*. A combination of the Yale examination and the Board examination in *June of the same year*, however, is not allowed, and a candidate who offers such a combination will be judged solely by his work in the Yale examination. In no case

will Board marking be revised by the Yale examiners.) A detailed list of the equivalent subjects in the Board examination is given below, immediately after the detailed statement of the subjects of the Yale examination. Board certificates may be sent for exchange to the Registrar of Yale College, New Haven, Connecticut. Credits, both preliminary and final, will be granted in accordance with the regulations which govern the Yale examination; for example, a candidate must, as a rule, pass satisfactorily in at least five subjects at one time in order to secure a preliminary certificate. Requests for blank forms of application for admission to the Board examination may be sent to the Secretary of the College Entrance Examination Board, Sub-station 84, New York City.

#### SUBJECTS OF THE YALE EXAMINATION

*N. B. The examiners reserve the right to reject any paper which is notably defective in spelling, grammar, idiom, or punctuation.*

##### I. LATIN

1. Latin Grammar. In two parts (which, however, may not be taken separately): (a) Questions on forms; (b) Questions on syntax.

2. Latin Composition. A connected passage of English prose to be translated into Latin.

The examinations in Latin Grammar and in Latin Composition in 1909 will be based upon the second, third, and fourth orations of Cicero against Catiline.

3. The translation, at sight, of passages from Cæsar and Nepos.

4. Cicero: the orations against Catiline and for Archias, and, in addition, either the *Milo*, or the *Manilian Law*, or the *Cato Maior*, or both the *Marcellus* and the *14th Philippic*.

5. Vergil: the first six books of the *Æneid* (including prosody), and, in addition, either the *Bucolics* or the eighth and ninth books of the *Æneid*.

##### NOTES ON ALL THE CLASSICAL PAPERS

In the examinations in Latin and Greek much weight is given to the papers in Grammar and Composition (papers 1, 2, and 6). Deficiencies in these subjects render it difficult or impossible to take up and carry on successfully the work in Latin or Greek of Freshman year. The questions on forms and syntax call for a good knowledge of all regular inflections and all common irregular forms, and of the ordinary

syntax of Cicero and of Xenophon, respectively. The passages for translation into Latin and Greek call further for acquaintance with the ordinary vocabulary of Cicero and of Xenophon, respectively; but the chief object of this part of the examination is to supplement the examination in formal grammar by testing the candidate's *working knowledge* of inflections, syntax, and the most common forms of sentence-connection. Teachers are urged to combine exercises in composition, both oral and written, with all the prose reading of the school course. Frequent short exercises in retroversion should have a prominent place among the means of obtaining the needed facility.

On the other classical papers grammatical questions are asked only to test the candidate's understanding of a passage, or on poetic forms and constructions (including prosody) in Vergil and Homer. But good translation, even of prepared passages, requires a practical knowledge of grammatical principles.

The translations of Latin and Greek at sight (paper 3 and parts of papers 7 and 8) are read with especial care, as testing the candidate's ability to get at the author's meaning without help. It is intended to give on the papers the meanings of such words (if there be any) as the candidate cannot fairly be expected to know. Exercises in reading at sight should begin early in the school course, and from the outset particular attention should be given to developing the ability to take in the full meaning of each word—and so, gradually, of the whole passage—just as it stands, *i. e.*, in the original order and with full appreciation of the force of each word as it comes, both as to its dictionary meaning and as to its relation to, and force in, its context. The habit of reading in this way should, in fact, be encouraged and cultivated in all the translating that the student has to do. But no translation should be a mere loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should be expressed in clear and natural English.

A written examination cannot test the ear and tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin and Greek, therefore, should include much reading aloud, writing from dictation, and translating from the teacher's reading. Learning fine passages by heart is also very useful and should be more practiced.

In order to allow the schools freedom in arranging their courses of work, alternative equivalents are provided in the authors set. Thus, the paper on Cicero contains questions on all the orations named in the list above, and in the Vergil paper passages are set from the eighth and ninth books of the *Æneid* as a substitute for the *Bucolics*. Papers will be prepared also on other parts of Vergil, on other orations of Cicero, on other portions of the works of Xenophon than the first four



books of the *Anabasis*, and on other books of Homer than the first three of the *Iliad* and the first four of the *Odyssey*, provided information be given to the Registrar of the College, before May 1 of the calendar year in which the examination is to be taken, that such a paper is desired.

## II. GREEK OR SUBSTITUTES FOR GREEK : GREEK

6. Greek Grammar and Composition. In two parts (which, however, may not be taken separately): (a) Questions on forms and syntax; (b) A passage of simple English prose to be translated into Attic Greek.

The examination in 1909 will be based upon the first three books of Xenophon's *Anabasis*.

7. Xenophon: four books of the *Anabasis*. This paper includes also a passage from some work of Xenophon to test the candidate's ability to read easy Greek at sight.

8. Homer: three books of the *Iliad* (including prosody). This paper includes also a passage from the poems of Homer to be translated at sight. Four books of the *Odyssey* may be substituted for three books of the *Iliad*.

Notes on all the classical papers are given above.

## SUBSTITUTES FOR GREEK

In place of Greek (papers 6-8) the following substitutes are accepted:

A candidate who wishes to omit only Homer must offer two of the three parts of Mathematics A1, described below. A candidate who wishes to omit the entire Greek requirement (papers 6-8, above, *but not Greek History, which is required of all candidates*) must offer both French (a) and German (a) and, in addition, one of the three following alternatives:

- i. Two of the three parts of Mathematics A1 and either French (b) or German (b).
- ii. French (b) and German (b).
- iii. German (b) and German (c).

The requirements in these substitutes are as follows:

### MATHEMATICS A1

*N. B. A candidate who expects to continue Mathematics in College and who offers two of the three parts of Mathematics A1 in partial satisfaction of the entrance requirement should offer parts (1) and (2).*

(1) Solid Geometry: the usual text demonstrations, omitting the theorems on spherical angles and triangles.

(2) Plane Trigonometry: fundamental definitions and properties of the trigonometric functions, with the usual formulæ; application of

the same to simple problems of reduction ; solution of trigonometric equations ; solution of right and oblique triangles by use of natural or logarithmic tables.

(3) Advanced Algebra : properties of quadratic equations, permutations and combinations, principles of logarithms, partial fractions ; graphical representation of functions of one variable and approximation to incommensurable roots ; simple theorems regarding the relation between the roots of an equation and its coefficients and factors.

#### FRENCH

French (*a*). See under III. French or German, below.

French (*b*). In addition to the elementary requirements, candidates who offer French for advanced standing, or as a partial substitute for Greek at entrance, are expected to possess a thorough knowledge of French grammar and idioms and the ability to translate connected passages from English into French, and to have read the following texts : Hugo's *Les Misérables*, pp. 1-124 of Super's edition (Heath & Co.) ; Zola's *La Débâcle*, pp. 1-155 of Wells's edition (Heath & Co.) ; Dumas fils's *La Question d'Argent* ; Daudet's *Contes*, pp. 1-133 of Cameron's edition (Holt & Co.).

Practice in reading French aloud and in writing from dictation is recommended.

[Credit is not given for French (*b*) before French (*a*) is passed.]

#### GERMAN

German (*a*). See under III. French or German, below.

German (*b*). The examination is designed to test the proficiency of those who have read, in addition to the amount specified under German (*a*), not less than 350 pages of classical and contemporary prose and verse. It consists of two parts (which, however, may not be taken separately) :

(i) The translation at sight of ordinary German.

The suggestions of the Report of the Committee of Twelve as to reading-matter for the Intermediate Course in German should be followed in general. The following selection is recommended : (1) one of Riehl's or Keller's tales ; (2) Freytag's *Die Journalisten* or Lessing's *Minna von Barnhelm* ; (3) Heine's Poems and Prose (such extracts, for example, as are contained in *Die Harzreise*, *Buch Le Grand*, and *Englische Fragmente* in ordinary school editions of Heine's Prose) ; (4) Goethe's *Hermann und Dorothea*.

(ii) The translation into German of a connected passage of simple English prose, to test the candidate's familiarity with grammar. Proficiency in grammar may be tested also by direct questions.

In the translation into German, candidates are expected to show a thorough knowledge of accidence, the elements of word-formation, the principal uses of prepositions and conjunctions, and the essentials

of syntax, especially the use of the modal auxiliaries and of the subjunctive and infinitive moods.

[Credit is not given for German (*b*) before German (*a*) is passed.]

German (*c*). The examination is designed to test the proficiency of those who have read, in addition to the amounts specified under German (*a*) and German (*b*), about 500 pages of difficult prose and of good literature in prose and verse. (The reading should be done with a view to acquiring facility in reading German for advanced work in other subjects, and to gaining an intelligent general appreciation of the purely literary works read.) The examination consists of two parts (which, however, may not be taken separately):

(i) The translation at sight of difficult German prose (not technical) and verse, whether recent or classical.

The suggestions of the Report of the Committee of Twelve as to reading-matter for the Advanced Course should be followed in general, though greater stress should be laid upon acquiring facility in translating and understanding German prose, such as would be necessary for advanced work in other branches.

(ii) The translation into German of a connected passage of ordinary English prose, or the writing in German of a short theme upon some assigned topic.

[Credit is not given for German (*c*) before German (*a*) and (*b*) are passed.]

### III. FRENCH OR GERMAN:

9. French (*a*) or German (*a*). The candidate is at liberty to decide for himself in which of the two languages he shall be examined.

#### FRENCH

French (*a*), *Elementary*. Candidates are required to translate simple prose selections from French authors (Kuhns's *French Reading* and Mérimée's *Colomba* are suggested), and to show familiarity with the elements of French grammar; that is, with the forms of the articles, adjectives, nouns, and pronouns, with the conjugation of the regular and the most frequent irregular verbs, and with ordinary syntactical constructions. Simple English sentences are set to be rendered into French, and the candidate's knowledge of the principles of pronunciation is tested.

#### GERMAN

German (*a*), *Elementary*. The examination is designed to test the proficiency of those who have studied German in the equivalent of a systematic course of at least five periods a week for one year. It consists of two parts (which, however, may not be taken separately):

(i) The translation at sight of a passage of easy prose containing no rare words.

The passages set for translation are suited to candidates who have read (including sight-reading done in class) not less than two hundred duodecimo pages of simple German, chiefly narrative prose. It is important that all translation be done into clear and idiomatic English.

(ii) The translation into German of simple English sentences, to test the candidate's familiarity with elementary grammar.

Elementary grammar is understood to include the conjugation of the weak and the more usual strong verbs; the declension of articles, adjectives, pronouns, and such nouns as are readily classified; the uses of the more common prepositions; the simpler uses of modal auxiliaries; the elements of syntax and word-order. Proficiency may be tested also by direct questions.

Practice in pronunciation by reading aloud as much as possible from the texts used in the class is recommended; also the writing of German from dictation.

#### IV. ENGLISH

*N. B. No candidate is accepted in either English (a) or English (b) whose work is notably defective in point of spelling, grammar, capitalization, punctuation, idiom, or division into paragraphs. An entrance condition imposed in English (a) is removed only upon evidence of marked improvement in the ability to write English correctly.*

10. English (a). The candidate should read the books prescribed below with a view to understanding and enjoying them. The examination is designed especially to test the candidate's power of clear and accurate expression, but calls also for a reasonable degree of familiarity with the substance of the books read. The form of the examination is usually the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number set before him in the examination paper. After 1909 the candidate will also be required to write upon one or more subjects of ordinary experience or knowledge, not taken from the prescribed books.

The books set for this part of the examination are as follows:

For the preliminary examination in 1909: Shakespeare's *Merchant of Venice* and *Julius Caesar*; the Sir Roger de Coverley Papers in *The Spectator*; Franklin's *Autobiography*; Scott's *Ivanhoe* and *Lady of the Lake*; either Irving's *Sketch Book* or Hawthorne's *House of the Seven Gables*; Macaulay's *Lays of Ancient Rome*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; either George Eliot's *Silas Marner* or Dickens's *Tale of Two Cities*.

For the preliminary examination in 1910: Shakespeare's *Merchant of Venice* and *Julius Caesar*; the Sir Roger de Coverley Papers in

*The Spectator*; either Franklin's *Autobiography* or Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe* and *Lady of the Lake*; Hawthorne's *House of the Seven Gables*; Macaulay's *Lays of Ancient Rome*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; either George Eliot's *Silas Marner* or Dickens's *Tale of Two Cities*.

For the preliminary examination in 1911: Shakespeare's *As You Like It* and *Julius Caesar*, Franklin's *Autobiography*; Goldsmith's *Deserted Village*; Dickens's *Tale of Two Cities*; George Eliot's *Silas Marner*; Irving's *Sketch Book*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and *Prisoner of Chillon*; Macaulay's *Lays of Ancient Rome*.

11. English (b). The candidate should read the books prescribed for this part of the examination with the view of acquiring such knowledge of their contents as will enable him to answer specific questions with accuracy and some detail. The examination tests also the candidate's ability to express his knowledge with clearness and accuracy. It is not designed, however, to require minute drill in difficulties of verbal expression, unimportant allusions, or technical details.

The books set for this part of the examination are as follows:

For the final examinations in 1909, 1910, and 1911: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; either Burke's *Speech on Conciliation with America*, or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

For the final examination in 1912: Shakespeare's *Macbeth*; either Milton's *L'Allegro*, *Il Penseroso*, and *Comus* or Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; either Burke's *Speech on Conciliation with America* or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

#### NOTES ON THE ENGLISH REQUIREMENTS

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure these ends, training in grammar and the simpler principles of rhetoric, and the writing of frequent compositions, are as essential as the study of the books specified above. Hereafter the English (b) paper may contain specific questions upon the essentials of English grammar, including ordinary grammatical terminology, inflections, and syntax. See also the paragraph in italics above, at the head of this section (IV. English).

The lists in English (a) for 1909, 1910, and 1911 are selected from the lists adopted by the Conference on Uniform Entrance Requirements in English, at meetings held in New York City, February 22,

1905, and February 22, 1908. Candidates may make other selections from that list, provided they notify the Registrar of the College before February 1 of the calendar year in which the examination is to be taken.

### V. MATHEMATICS

12. Algebra (*a*): fundamental operations, factoring, highest common factor, least common multiple, fractions, equations of the first degree in one or more unknown quantities, problems which lead to equations of the first degree, powers and roots, fractional and negative exponents, reduction of radicals, including the extraction of the square root of numbers.

13. Algebra (*b*): quadratic equations in one or two unknown quantities, ratio and proportion, arithmetical and geometrical progressions, binomial theorem for positive integral exponents.

14. Plane Geometry: demonstrations of theorems and constructions, and demonstrations of problems which are contained in the standard texts; simple exercises in construction and demonstration; numerical problems, of which some are stated in terms of the metric system of weights and measures, relating to the mensuration of the triangle, parallelogram, trapezoid, regular polygons, and circle. For this examination the candidate must provide himself with compasses and ruler.

Special emphasis is laid upon accuracy in reckoning, both in Algebra and in Geometry.

### VI. ANCIENT HISTORY

15. Greek and Roman History: from the earliest times to the death of Augustus.

The examination in this subject may not be divided.

### COLLEGE ENTRANCE EXAMINATION BOARD EQUIVALENTS

The subjects in the College Entrance Board examination which, as stated above, may be offered as substitutes for the Yale requirements are as follows:

YALE REQUIREMENTS	BOARD EXAMINATION
	I. LATIN
1. Latin Grammar	{ ( <i>a</i> ) i. Grammar ii. Elementary Prose Composition
2. Latin Composition	( <i>l</i> ) Prose Composition
3. Cæsar and Nepos	{ ( <i>b</i> ) Cæsar and ( <i>c</i> ) Cornelius Nepos } <i>or</i> ( <i>bc</i> ) Cæsar and Nepos

4. Cicero

(c) Cicero

5. Vergil

{	(d) Vergil's <i>Æneid</i> and either	}	or
	(g) Ovid or (q) Sight Translation of Poetry		
	(dq) <i>Æneid</i> and Sight Translation		

## II. GREEK OR SUBSTITUTES FOR GREEK : GREEK

6. Greek Grammar and  
Composition

{	(a) i. Grammar ii. Elementary Prose Composition
	and

7. Xenophon

{	(f) Prose Composition
	(b) Xenophon and (g) Sight Translation of Prose

8. Homer

{	(c) Homer's <i>Iliad</i> and	}	or
	(h) Sight Translation of Homer		
	(ch) <i>Iliad</i> and Sight Translation		

## SUBSTITUTES FOR GREEK

For Homer,—  
Any two of the three parts of  
*Mathematics A1*, as follows :

- (1) Solid Geometry
- (2) Plane Trigonometry
- (3) Advanced Algebra

For the entire  
Greek requirement,—  
Both

Elementary French  
and

Elementary German

and, in addition, any two of  
the three following (i, ii, iii):

(i) French (b)

(ii) German (b)

(iii) Any two of the three parts  
of *Mathematics A1* (as above)

For Homer,—  
Any two of the three  
following:

- (d) Solid Geometry
- (f) Plane Trigonometry
- (b) Advanced Algebra

For the entire  
Greek requirement,—  
Both

(a) Elementary French  
and

(a) Elementary German

and, in addition, any two  
of the following groups :

(b) Intermediate French  
and

(c) Advanced French

(b) Intermediate German

and

(c) Advanced German

Any two of the three following.

(d) Solid Geometry

(f) Plane Trigonometry

(b) Advanced Algebra

## III. FRENCH OR GERMAN

- |               |                       |
|---------------|-----------------------|
| 9. French (a) | (a) Elementary French |
| or            | or                    |
| German (a)    | (a) Elementary German |

## IV. ENGLISH

- |                 |                          |
|-----------------|--------------------------|
| 10. English (a) | (a) Reading and Practice |
| 11. English (b) | (b) Study and Practice   |

## V. MATHEMATICS

- |                    |                    |
|--------------------|--------------------|
| 12. Algebra (a)    | (a) i. Algebra     |
| 13. Algebra (b)    | ii. Algebra        |
| 14. Plane Geometry | (c) Plane Geometry |

## VI. ANCIENT HISTORY

- |                             |                     |
|-----------------------------|---------------------|
| 15. Greek and Roman History | (a) Ancient History |
|-----------------------------|---------------------|

**CERTIFICATES OF STANDING ELSEWHERE**

Certificates of standing elsewhere are not accepted for admission in lieu of examinations, except in certain cases when a candidate brings evidence that he has passed the whole of Freshman year in good standing at another college. A blank form of application will be furnished by the Registrar of the College upon request. Each application must be accompanied by a certificate of honorable dismissal and a detailed statement of the applicant's entrance credits and work completed in college, both signed by the Dean or other proper officer of the college from which the student comes. Each application is judged on its merits; in every case the amount of work certified must be more than equivalent to the Yale entrance requirements, usually by a year's work.

**ADMISSION TO, AND DIVISION OF, THE EXAMINATION**

The examination may be taken either all at one time or in parts, at two or more different times. Candidates, certificates, and examinations are accordingly designated as either "preliminary" (*i. e.*, other than final) or "final." The requirements for admission to an examination and for the granting of a certificate, together with the regulations under which the examination may be divided, are as follows :

1. Every candidate for admission is expected to send to the Registrar of the College, not later than May 15, a



written notification of his intention to take the examination, stating also whether he is a preliminary or a final candidate and at what place he will take the examination. Upon receipt of this notification the Registrar will send a letter of instructions and a blank form for the required recommendation (see paragraph 5, below).

2. At a preliminary examination a candidate, whether he already holds a preliminary certificate or not, must present a definite statement from his instructor or instructors, specifying the subjects in which he is prepared to offer himself for examination. No candidate is accepted in a subject in which he is not so authorized before the close of the examination.

3. To obtain a preliminary certificate, a candidate must, as a rule, pass at one time in not less than five subjects in which he is duly authorized. To obtain an addition to the list of subjects credited on such a certificate, he must pass at one time in not less than three authorized subjects.

4. In general there must be an interval of not less than a school year between two parts of an examination ; but a candidate who has received a preliminary certificate at the June examination may at the next September examination add to the list of subjects credited thereon *under the following conditions only*: (1) satisfactory evidence of work done during the summer must be presented, and (2) *either* (a) the candidate must pass in at least three subjects *or* (b) the subject or subjects to be added must have been included among the subjects in which the candidate was authorized (see paragraph 2, above) for the June examination.

5. At the final examination a candidate must bring from his instructors satisfactory documents, *covering the whole of the preceding school year, September-June, whether this has all been spent in one school or not*, under the following three heads : (1) the work that has been done by him, (2) the subjects in which he is recommended for examination, (3) his moral character.

**DATE AND PLACE OF THE EXAMINATION**

The regular examination for admission to the College in 1909 will be held at Alumni Hall, New Haven, on Wednesday, Thursday, Friday, and Saturday, June 30 and July 1, 2, and 3.

Examinations for admission to the Freshman class (but not to other classes) will be held on the same dates (beginning on Wednesday, June 30, at 2.00 P. M., and closing on Saturday, at 4.00 P. M.) at the following places also :

- Albany, N. Y., at the Albany Academy ;
- Andover, Mass., at Phillips Academy ;
- Asheville, N. C., at the Asheville School ;
- Auburn, N. Y., at the High School ;
- Berkeley, Cal., inquire of Professor Herbert C. Nutting, 1425 Walnut st. ;
- Buffalo, N. Y., at the Central High School ;
- Chicago, Ill., at the Bryant & Stratton Business College, northwest corner of Wabash av. and Congress st. ;
- Cincinnati, O., at the Hughes High School, Fifth st., head of Mound ;
- Cleveland, O., at the University School ;
- Dallas, Tex., at the Terrill School ;
- Denver, Col., at the East Denver High School ;
- Detroit, Mich., at the Central High School ;
- Easthampton, Mass., at Williston Seminary ;
- Exeter, N. H., at Phillips Academy ;
- Garden City, N. Y., at St. Paul's School ;
- Hartford, Conn., at the Public High School ;
- Interlaken, Switzerland, under the supervision of Mr. Howard Copland ;
- Kansas City, Mo., at the Central High School ;
- Lakeville, Conn., at the Hotchkiss School ;
- Lawrenceville, N. J., at the Lawrenceville School ;
- Louisville, Ky., at the Male High School ;
- Milwaukee, Wisc., at the Milwaukee Academy, 471 VanBuren st. ;
- Munich, Germany, at Dr. Coit's School ;
- Nashville, Tenn., at the Fogg High School ;
- New York City, at the Y. M. C. A. building, 215 W. 23d st. ;
- Nordhoff, Cal., at the Thacher School ;
- Norwich, Conn., at the Free Academy ;
- Ossining, N. Y., at Dr. Holbrook's School ;
- Pawling, N. Y., at the Pawling School ;
- Philadelphia, Pa., at the Central High School ;
- Pittsburg, Pa., at the Shady Side Academy ;
- Pomfret, Conn., at the Pomfret School ;
- Portland, Oregon, at the Hill Military Academy ;

Pottstown Pa., at the Hill School ;

St. Louis, Mo., at the Board of Education building, corner 9th and Locust sts. ;

St. Paul, Minn., at the Central High School ;

San Francisco, Cal., see Berkeley, Cal. ;

Scranton, Pa., at the School of the Lackawanna ;

Seattle, Wash., at the High School ;

Simsbury, Conn., at the Westminster School ;

Springfield, Mass., at the Central High School ;

Tacoma, Wash., at the High School ;

Washington, Conn., at the Gunnery ;

Watertown, Conn., at the Taft School ;

Worcester, Mass., at Worcester Academy.

The College is prepared to hold an examination also, at the above-named time, in any other city or at any other school where the number of candidates and the distance from other places of examination may warrant it. Application for such an examination must be sent to the Registrar before May 15.

A detailed schedule of the examination is given below. *All candidates, whether taking the examination in New Haven or elsewhere, must be present at the opening session, at 2.00 P. M. on Wednesday.*

A second examination will be held, *in New Haven only*, on Saturday, Monday, Tuesday, and Wednesday, September 25, 27, 28, and 29, 1909. *All candidates taking this examination, except those who hold final certificates (with or without conditions), must be present at Alumni Hall at 10.00 A. M. on Monday.* A schedule of the examination is given below.

#### **FEE FOR THE EXAMINATION OUTSIDE OF NEW HAVEN**

A fee of five dollars (payable at the opening of the sessions) is charged for admission to each examination (whether complete or partial) outside of New Haven.

#### **COPIES OF EXAMINATION PAPERS**

A set of the papers given at the examination in June, 1908, will be found at the end of the Academical pamphlet (preceding the indices). Teachers who desire for class use several copies of any paper (for any year since 1900) may obtain them at the rate of ten cents per dozen copies by applying to the Registrar.

# SCHEDULE OF THE JUNE EXAMINATION

*Wednesday, June 30*

Registration . . . . .	2.00— 2.20
Cæsar and Nepos . . . . .	2.30— 3.15
Latin Grammar . . . . .	3.30— 5.00
Latin Composition . . . . .	5.15— 6.00

*Thursday, July 1*

English (b) . . . . .	8.30— 9.30
English (a) . . . . .	9.45—10.45
{ Greek Grammar and Composition . . . . .	11.00—12.45
<i>or</i>	
{ German (b) . . . . .	11.00— 1.00
Xenophon . . . . .	2.15— 3.45
Vergil . . . . .	4.00— 5.00
Cicero . . . . .	5.15— 6.00

*Friday, July 2*

Algebra (a) . . . . .	8.30— 9.30
Algebra (b) . . . . .	9.45—10.45
Greek and Roman History . . . . .	11.00—12.45
German (a) . . . . .	2.15— 3.30
{ Homer . . . . .	3.45— 5.15
<i>or</i>	
Mathematics A I :	
{ (1) Solid Geometry . . . . .	3.45— 4.30
{ (2) Plane Trigonometry. . . . .	4.30— 5.15
(3) Advanced Algebra . . . . .	5.15— 6.00
<i>or</i>	
{ German (c) . . . . .	3.45— 5.45

*Saturday, July 3*

French (a) . . . . .	8.30— 9.45
Plane Geometry . . . . .	10.00—12.00
French (b) . . . . .	2.00— 4.00

# SCHEDULE OF THE SEPTEMBER EXAMINATION

*Saturday, September 25*

{ Homer . . . . .	10.30—12.00
<i>or</i>	
Mathematics A I :	
{ (1) Solid Geometry . . . . .	10.30—11.15
{ (2) Plane Trigonometry. . . . .	11.15—12.00
(3) Advanced Algebra . . . . .	12.00—12.45
<i>or</i>	
{ German (c) . . . . .	10.30—12.30
French (b) . . . . .	2.00— 4.00

*Monday, September 27*

Registration . . . . .	10.00—10.20
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Latin Grammar . . . . .	10.30—12.00
Latin Composition . . . . .	12.15— 1.00
Cæsar and Nepos . . . . .	2.00— 2.45
Vergil . . . . .	3.00— 4.00
Greek and Roman History . . . . .	4.15— 6.00

*Tuesday September 28*

Plane Geometry . . . . .	8.30—10.30
Cicero . . . . .	10.45—11.30
German (a) . . . . .	11.45— 1.00
English (a) . . . . .	2.00— 3.00
English (b) . . . . .	3.15— 4.15
Xenophon . . . . .	4.30— 6.00

*Wednesday, September 29*

Algebra (a) . . . . .	8.30— 9.30
Algebra (b) . . . . .	9.45—10.45
{ Greek Grammar and Composition . . . . .	11.00—12.45
{ <i>or</i>	
{ German (b) . . . . .	11.00— 1.00
French (a) . . . . .	2.00— 3.15

**ANTICIPATION OF FRESHMAN COURSES**

Courses regularly offered to the Freshman class (described on later pages) may be anticipated by members of the incoming class under the following regulations: (1) application must be made in writing to the Registrar before September 1; (2) a fee of five dollars for each course (made payable to the College Bursar, Mr. H. M. Osborn) must accompany the application; (3) the applicant must present himself for examination at the time of the entrance examination in September. If the examination is satisfactorily passed, the student may take in place of the anticipated work an equal number of hours from the courses open to Freshmen or to Sophomores, if he is otherwise qualified to do so; and the anticipated course or courses may, if a grade of C or higher is obtained therein, count as part of the sixty hours required for graduation.

**ADMISSION TO ADVANCED STANDING**

Examinations for admission to advanced standing will be held at Alumni Hall on Thursday, Friday, and Saturday, July 1, 2, and 3; and on Monday, Tuesday, and Wednesday, September 27, 28, and 29, 1909. *All applicants*

*must give evidence of having satisfied the regular requirements for admission to the Freshman class.*

A student from another college is admitted *ad eundem* only on passing a satisfactory examination on the studies of Freshman year, and upon other courses sufficient to make up the number of hours of class-room work already completed by the class which he wishes to enter.

Applications for admission to advanced standing without examination are received from graduates and undergraduates of approved colleges, who expect to fall back one or more years in their class rating. Each case, however, is judged on its merits. Either a diploma of graduation or a statement from the Dean or other proper officer of the college from which the student comes must be handed in with each application. Blank forms of application may be obtained by writing to the Dean of the College.

No one is admitted to the Senior class after the beginning of the second term.

#### AGE, TESTIMONIAL, AND BOND

No one is admitted to the Freshman class until he has completed his fifteenth year, nor to a higher class without a corresponding increase of age.

A satisfactory testimonial of good moral character is in every case required, before a certificate of admission in full is granted. Students from other colleges, as well as those who have been members of a school at any time during the preceding year, must present certificates of dismissal in good standing.

Every person, on being admitted, must give to the College Bursar a bond, executed by his parent or guardian, for five hundred dollars, as security for the payment of charges arising under the laws of the College. A blank form for this purpose is provided at the time of admission.

## **GOVERNMENT, SCHOLARSHIP, ATTENDANCE, AND CONDUCT**

The DEAN OF THE COLLEGE FACULTY has the general supervision, under the Faculty, of the Senior and Junior classes. COMMITTEES ON SOPHOMORE CLASS ADMINISTRATION and ON FRESHMAN CLASS ADMINISTRATION, consisting of instructors of these two classes, respectively, have a similar supervision of the Sophomore and Freshman classes, whose members are assigned in groups to the care of individual members of one or the other Committee.

The COLLEGE RULES FOR SCHOLARSHIP, ATTENDANCE, AND CONDUCT are issued in a separate pamphlet, copies of which are distributed to members of the incoming class and may be obtained at the Dean's Office.

For ATTENDANCE AT PRAYERS AND SUNDAY SERVICE, which is required of Students in the College, see the section on the University Church, on later pages.

## **TERMS AND VACATIONS**

The PUBLIC COMMENCEMENT is held on the last Wednesday in June. The FIRST TERM begins thirteen weeks from the day after Commencement Day and continues twelve weeks. The SECOND TERM begins on the third Wednesday after the close of the first term and continues until Commencement Day, with a SPRING RECESS of one week (occasionally two weeks, when the second term would otherwise be one week longer than usual) including Easter Sunday. For some purposes the second term is divided into two approximately equal parts, as specified in the College rules.

## **COLLEGE BUILDINGS**

### **LECTURE AND RECITATION HALLS, LABORATORIES, ETC.**

The principal buildings used for the purposes of instruction and administration in the Academical Department are: ALUMNI HALL (for recitations and examinations); COLLEGE STREET HALL (for lectures and concerts);

HERRICK HALL (psychological laboratory); KENT CHEMICAL LABORATORY; LAMPSON HALL (for recitations and lectures, and containing the BURSAR'S OFFICE, the DEAN'S OFFICE, and LAMPSON LYCEUM); OSBORN HALL (for recitations and lectures); PHELPS HALL (for recitations and lectures, and containing the BUREAU OF APPOINTMENTS); PEABODY MUSEUM OF NATURAL HISTORY (containing lecture rooms and laboratories, in addition to extensive collections); and SLOANE PHYSICAL LABORATORY. In some courses open to Academical students exercises are held in the buildings of the ART SCHOOL, the DIVINITY SCHOOL, the LAW SCHOOL, the MEDICAL SCHOOL, the DEPARTMENT OF MUSIC, and the SHEFFIELD SCIENTIFIC SCHOOL. The general administrative building for the University, containing the offices of the President, the Secretary, and the Treasurer, is WOODBRIDGE HALL. The Bicentennial Buildings include MEMORIAL HALL, UNIVERSITY HALL (containing the DINING HALL), and WOOLSEY HALL (containing the NEWBERRY ORGAN). The YALE STATION (University Post Office) is in Fayerweather Hall, which contains also the YALE CO-OPERATIVE STORE. Other buildings, *e. g.*, BATTELL CHAPEL, DWIGHT HALL, UNIVERSITY LIBRARY, GYMNASIUM, and INFIRMARY, are noticed on other pages.

#### DORMITORIES

The College Dormitories, in the order of date of erection, are as follows: CONNECTICUT HALL (built in 1750-52, long known as SOUTH MIDDLE COLLEGE, restored to its original form and name in 1905) owes its name to the liberal support given by the General Assembly of Connecticut in its construction; FARNAM HALL (built in 1869-70) is named in commemoration of Henry Farnam, Esq., of New Haven, who bore the chief part of the expense of its erection; DURFEE HALL (built in 1870-71) commemorates in like manner the generosity of Bradford M. C. Durfee, Esq., of Fall River, Massachusetts; LAWRENCE HALL (built in 1885-86) owes its name to a gift



for its construction from Mrs. Francis C. Lawrance, of New York City, in memory of her son, Thomas Garner Lawrance, of the class of 1884, who died during his Senior year in College; WELCH HALL (completed in 1892) is the gift of Pierce N. Welch, Esq. (Yale College 1862), of New Haven, in memory of his father, Hon. Harmanus M. Welch, of this city, who died in 1889; VANDERBILT HALL (first occupied in 1894) is the gift of Mr. and Mrs. Cornelius Vanderbilt, of New York City, in memory of their son, William Henry Vanderbilt, a member of the class of 1893, who died in 1892; WHITE HALL (completed in 1894) was erected at the expense of Andrew J. White, M.D. (Yale 1846), of New York City; BERKELEY HALL (completed in 1894) is named in commemoration of Bishop Berkeley, one of the early benefactors of the College; PIERSON HALL (built in 1896) bears the name of the first President (or Rector) of the College; FAYERWEATHER HALL (completed in 1901) is named in honor of Mr. Daniel B. Fayerweather, of New York City; and HAUGHTON HALL (erected from the bequest of Mr. William L. McLane, Yale College 1869) will be completed in the summer of 1909

## EXPENSES

### TUITION

The BILLS FOR TUITION and other charges are made out and delivered to the students (or mailed to the parent or guardian, *if request to that effect is made*) three times a year, namely, at the beginning of each term and at the middle of the second term, at which times they are payable at the Bursar's Office, in Lampson Hall. If a student's account is not settled within the time specified on his bill, he will not be permitted to attend recitations until it has been settled, and in the allotment of College rooms he will not be permitted to retain or choose a room. Drafts on New York, Boston, and Philadelphia are received at par.

The annual charges for tuition are one hundred and

fifty-five dollars. Of this amount fifty-five dollars is payable at the beginning of the first term, and fifty dollars at the beginning, and again at the middle, of the second term. An additional charge of eighteen dollars is made in the last bill for tuition in Senior year, to cover expenses of graduation.

A student who is absent from College on account of sickness, or for any other cause, and retains his place in his class, is charged full tuition during his absence; and payment is required before he can be admitted to examination.

#### BOARD

BOARD may be obtained at cost at the YALE DINING HALL (described in a later section). Board may be obtained out of College at prices varying from three dollars and a half to eight dollars per week. The average price is under five dollars.

#### ROOMS

There are in the College buildings (previously described) nearly five hundred rooms occupied by students, at prices varying, according to location, from one dollar to twelve dollars per week, payable each term or half-term in advance. These rooms are not furnished, and the rates charged do not include heat or light.

Students living out of College are not allowed to room in any hotel or apartment-house or in any building in which a family does not reside, except by special permission of the Faculty.

Rooms are reserved in May for members of the Freshman class of the year following, and are assigned to applicants in the order of application. Correspondence about College rooms should be addressed to the Dean.

Members of the Junior, Sophomore, and Freshman classes, occupying any of the College rooms, may retain the same rooms for another College year by making application in writing to the Bursar on or before Saturday, May 8, 1909. Rooms not reserved will then

be offered to the classes in order. Choices will be allotted to the Junior class on Monday, May 24, to the Sophomore class on Friday, May 28, and to the Freshman class on Friday, June 4.

PRICES PER WEEK OF ROOMS IN COLLEGE FOR 1908-09

The length of the rental-year is thirty-nine weeks. When a room is occupied by two persons, each occupant is charged with one-half the price named in this schedule.

\$1.00—359, 360, 361, 362, 363, 364, 365, 366 White; 417, 420 Berkeley.

\$1.25—418, 419 Berkeley.

\$1.50—80, 81, 90, 91 Connecticut; 409, 412, 416, 421 Berkeley.

\$2.00—72, 73, 76, 77, 78, 79, 82, 83, 86, 87, 92, 93 Connecticut;  
198, 217, 232 Farnam; 401, 404, 408, 410, 411, 413 Berkeley;  
527, 529, 591, 593 Pierson.

\$2.25—385, 388, 393, 396, 400, 403, 405 Berkeley.

\$2.50—70, 71, 74, 75, 84, 85, 88, 89 Connecticut; 144, 145, 151, 152,  
161, 162, 171, 172, 176, 177, 182, 183 Lawrance; 524, 526, 528,  
530, 532, 534, 575, 577, 587, 588, 589, 590, 592, 594, 595, 596,  
597, 598 Pierson.

\$2.75—384, 386, 387, 389, 392, 394, 395, 397 Berkeley.

\$3.00—196, 197, 213, 214, 215, 216, 229, 230 Farnam; 523, 525, 531  
533, 543, 545, 559, 561, 571, 572, 573, 574, 576, 578, 579  
580, 581, 582 Pierson.

\$3.50—185, 186, 188, 189, 192, 193, 195, 199, 200, 201, 202, 203, 204,  
205, 206, 208, 209, 210, 211, 218, 219, 221, 222, 225, 226, 231  
Farnam.

\$4.00—415, 422 Berkeley; 451, 452, 453, 454 Fayerweather; 539,  
540, 541, 542, 544, 546, 547, 548, 549, 550, 555, 556, 557, 558,  
560, 562, 563, 564, 565, 566 Pierson.

\$4.50—14, 18 Vanderbilt; 149, 150, 159, 160, 169, 170, 180, 181  
Lawrance; 184, 187, 191, 220, 223, 227 Farnam.

\$5.00—22, 26, 40, 56 Vanderbilt; 109, 122, 125, 138 Welch; 142, 143,  
147, 148, 153, 154, 157, 158, 163, 164, 167, 168, 173, 174, 178,  
179 Lawrance; 240, 247, 248, 255, 256, 263, 264, 271 Durfee;  
407, 414 Berkeley; 521, 522, 585, 586, 599, 600 Pierson.

\$5.50—44 Vanderbilt; 140, 141 Welch; 341, 342, 379, 380, 381, 382  
White; 399, 406 Berkeley; 433, 434, 467, 468, 469, 470  
Fayerweather.

\$6.00—48, 52 Vanderbilt; 97, 106, 107, 108, 110, 111, 112, 113, 123,  
124, 126, 139 Welch; 146, 155, 156, 165, 166, 175 Lawrance;  
234, 241, 242, 249, 250, 257, 258, 265 Durfee; 338, 339, 355,  
356, 357, 358, 375, 376, 377, 378 White; 430, 431, 447, 448, 449,

- 450, 463, 464, 465, 466 Fayerweather ; 535, 536, 538, 554, 569, 570, 583, 584 Pierson.
- \$6.25—128, 129 Welch.
- \$6.50—238, 245, 246, 253, 254, 261, 262, 269 Durfee ; 351, 352, 353, 354 White ; 383, 390, 391, 398 Berkeley ; 443, 444, 445, 446 Fayerweather.
- \$7.00—2, 3, 13, 15, 41, 43, 45, 58, 60 Vanderbilt ; 94, 95, 96, 101, 114, 117, 118, 121, 127, 130, 134 Welch ; 233, 235, 236, 237, 243, 244, 251, 252, 259, 260, 267 Durfee ; 332, 333, 335, 336, 340, 343, 344, 345, 346, 347, 348, 349, 350, 367, 368, 369, 370, 371, 372, 373, 374 White ; 424, 425, 427, 428, 432, 435, 436, 437, 438, 439, 440, 441, 442, 455, 456, 457, 458, 459, 460, 461, 462 Fayerweather ; 537, 553 Pierson.
- \$7.50—133, 136, 137 Welch.
- \$7.75—132 Welch.
- \$8.00—1, 11, 12, 16, 25, 27, 29, 36, 42, 55, 57, 59, 67, 69 Vanderbilt ; 100, 104, 105, 115, 116, 119, 120, 131, 135 Welch ; 266, 268, 270 Durfee ; 337 White ; 429 Fayerweather ; 551, 552, 567, 568 Pierson.
- \$8.50—5, 8, 17, 19, 21, 23, 47, 49, 51, 53, 63, 66 Vanderbilt ; 98, 102 Welch.
- \$9.00—10, 28, 34, 39, 54, 68 Vanderbilt ; 99, 103 Welch ; 331 White ; 423 Fayerweather.
- \$10.00—4, 6, 7, 9, 20, 24, 30, 32, 35, 37, 38, 46, 50, 61, 62, 64, 65 Vanderbilt ; 334 White ; 426 Fayerweather.
- \$12.00—31, 33 Vanderbilt ; 239, 272 Durfee.

ESTIMATES OF EXPENSES

The subjoined table gives estimates of the ordinary annual expenses in College, omitting clothing, vacation expenses, and sundries.

	Lowest	General Average	Very Liberal
Treasurer's bill, tuition . . . . .	\$155	\$155	\$155
Rent and care of half-room in College . . . . .	20	100	140
Board, 36 weeks . . . . .	117	175	250
Furniture, one-fourth of half-room for 4 years . . . . .	3	5	10
Fuel (steam-heat) and light, for half-room . . . . .	15	20	35
Washing . . . . .	15	25	40
Text-books and stationery . . . . .	10	25	40
Subscriptions(to Societies, Sports, Periodicals, etc.) . . . . .		20	100
Total . . . . .	\$335	\$525	\$770



### **SELF-HELP AND BENEFICIARY AID**

Besides the Scholarships and Funds noticed in this section, there are many Scholarships and Prizes noticed in the next section which afford material assistance to capable students.

#### **SELF-HELP**

Students in any Department of the University are assisted to obtain employment by the Bureau of Appointments (described in a later section), which also has charge of the assignment of beneficiary aid to students in the College.

#### **BENEFICIARY AID**

More than thirty thousand dollars is annually applied to the relief of students in the College who need pecuniary aid. Of this sum about twenty thousand dollars is derived from permanent charitable funds, while the remainder is taken from the annual income of the College. This assistance is given in the form of Tuition Scholarships, as Aid to Students Intending to Enter the Ministry, in Loans, and in Special Beneficiary Scholarships. Needy students are also employed as Monitors, etc., and obtain text-books gratuitously from a Loan Library. As follows:

#### **TUITION SCHOLARSHIPS**

Tuition Scholarships are granted to approved students upon the basis of need and of excellence in scholarship, as follows:

For the first term of Freshman year an abatement of tuition is made at the rate of one hundred and ten dollars a year, from the full annual charge of one hundred and fifty-five dollars, to such students as are judged to be in need of such aid to enable them to pursue their College course. The fact and the degree of the need in each case are determined by the information given by the applicant in filling out a form of application (which may be obtained from the Bureau of Appointments) in which

particular questions are asked as to the financial condition of himself and his family. So far as is practicable this information is regarded as confidential.

After the first term of Freshman year no abatement is allowed to any applicant whose grade in scholarship, in the preceding term or half-term, has fallen below 2.60 on the scale of 0-4.00. To all applicants whose grade in the preceding term or half-term is 2.60 or above Scholarships are assigned, at the beginning of each term or half-term, as follows: to a certain number of those who are found to be at once highest in scholarship and most in need, Scholarships at the rate of one hundred and fifty dollars a year (Group A); to an equal number of those judged to be lowest in scholarship or least in need, Scholarships at the rate of seventy dollars a year (Group C); and to all the rest, Scholarships at the rate of one hundred and ten dollars a year (Group B).

These abatements are made proportionately from each one of the term-bills when due. Assistance is withdrawn from students whose expenditures are not in accordance with the claim of limited means, or who are irregular in attendance, or who have been found guilty of behavior reflecting upon their moral character or subversive of College discipline. Recipients of this aid who join College societies, fraternities, clubs, or other associations, connection with which involves the payment of fees, dues, or other expenses, must arrange with the Bursar of the College in sufficient season to allow the deduction of the amount of expense thus incurred from the amount of the Scholarship.

Those who need this aid should make application to the Bureau of Appointments, in each year of the College course. A person applying for the first time is required to present evidence in writing that he is worthy to receive assistance and needs it, upon doing which he will receive a form of application, which must be filled out and left at the Bureau on or before October 15.

Tuition Scholarships are derived from the income of funds as follows :

The **HARMER FOUNDATION OF SCHOLARSHIPS**, the proceeds of a bequest in 1854 from Thomas Harmer Johns (Yale College 1818), of Canandaigua, New York, received in 1858 and now amounting to over eleven thousand dollars, comprises five Scholarships, to be given to deserving students of small means.

The **LYON SCHOLARSHIP FUND**, of fifty-four hundred dollars, given in 1868-72 by Morris W. Lyon (Yale College 1846), of New York City, benefits four Scholars, selected for their worth and need by the founder or the Faculty.

The **MORGAN FUND**, bequeathed by Henry T. Morgan, of New York City, received in 1883-84, and now amounting to over eighty-six thousand dollars, has been set apart by the Corporation with the provision that the income shall be divided into Tuition Scholarships, to be assigned by the Faculty for the benefit of indigent and deserving students.

The **MARETT FUND**, amounting to over one hundred and fifty-two thousand dollars, which was established by the will of Philip Marett, of New Haven, in 1869, and was received in 1889-97, has been appropriated for beneficiary Scholarships, in aid of needy and deserving students.

The **CHRISTMAN FUND**, amounting to over twenty-two thousand dollars, bequeathed by Joseph A. Christman (Yale College 1857), of New York City, and received in 1891, is devoted to the support of poor and meritorious students.

There are more than thirty other **SCHOLARSHIP FUNDS**, most of them of one thousand dollars each, the income of which may be given to such students as shall be selected by the founders or the Faculty. In this number are included Scholarships named in commemoration of William Allen, Charles Atwater, Mills Bordwell, William S. Charnley, Thomas H. and Luther Fuller, Sereno Gaylord, John C. Holley, Charles L. Ives, Elisha C. Jones, William A. Macy, John S. Mitchell, John M. Raymond, John Spaulding, and James M. Whiton.

#### AID TO STUDENTS INTENDING TO ENTER THE CHRISTIAN MINISTRY

Those who desire this aid should apply to the Bureau of Appointments, on or before October 15 in each year of the College course. A person applying for the first time must present proper testimonials. The applicant is required to sign an agreement (attached to the application for a Tuition Scholarship) that, at the end of his College

course, he will give his promissory note to the Bursar of Yale College for an amount equal to all the sums he shall have received on this special account (by which is meant all in excess of what he would have received had he held only a Tuition Scholarship), payable five years from the date of his graduation, if at that time he has not entered upon the work of the Christian ministry.

This aid is generally sufficient to meet the entire charge for tuition. It is derived from the income of funds, as follows:

The LANGDON FUND, of four thousand dollars, was bequeathed in 1835, by Solomon Langdon, of Farmington, Connecticut, to be applied for the instruction of undergraduate students having "the purpose of devoting their lives to the Gospel ministry."

The ELLSWORTH FUND, now about ninety-six thousand dollars, was received in 1858, from the estate of Hon. Henry L. Ellsworth (Yale College 1810). The Corporation has directed that during the present year the income of this fund be applied to the aid of students in the College who need such assistance, preference being given to those having the purpose of entering the Gospel ministry.

The GRATUITY FUND, of over fourteen thousand dollars, and funds named in commemoration of William E. Dodge, Rev. Joel Hawes, D.D., and Rev. Peter Parker, M.D., are also devoted to this purpose.

See also the MEAD SCHOLARSHIP, in the section on Undergraduate Scholarships.

#### LOANS

The sum of three thousand dollars has been appropriated from the UNIVERSITY LOAN FUND to be lent, through the Bureau of Appointments, to Academical students whose character and promise make them worthy of such help. These loans are the same in amounts as Tuition Scholarships and are to be applied toward payment of tuition. Application must be made each year, on forms which may be obtained from the Secretary of the Bureau.

#### SPECIAL BENEFICIARY SCHOLARSHIPS

Certain Beneficiary Scholarship funds have, for one reason or another, been kept distinct from the general Tuition Scholarship funds. They are as follows:



The DAVID C. DEFOREST SCHOLARSHIPS were established in 1823, by David C. DeForest, of New Haven. By the terms of this gift, the fund for which became available in 1852, one thousand dollars is annually appropriated for "the education and support at Yale College, or the University which may grow out of it, of the male descendants of Mehitabel Lockwood," the mother of the donor. In default of such descendants the same sum is applied to the education of others of the family of DeForest.

The HOLMES SCHOLARSHIPS, one for each class in College, founded in 1865 by Samuel Holmes, of Montclair, New Jersey, are assigned upon the nomination of the Board of Agents of the Silas Bronson Library of Waterbury to students from the towns of Waterbury, Wolcott, Prospect, and Middlebury, Connecticut, who receive each the income of one thousand dollars per year.

The LUCIUS HOTCHKISS FUND, of ten thousand dollars, a bequest from Lucius Hotchkiss, of New Haven, made and received in 1881, comprises four Scholarships, the income of which is given to indigent and deserving students.

The LEAVENWORTH SCHOLARSHIP FUND, of twelve thousand dollars, was established in 1882, by Hon. Elias W. Leavenworth (Yale College 1824), of Syracuse, New York, with the primary object of defraying in part the expenses of the education of students of good character and promise, bearing the surname of Leavenworth.

The income of the TEELE FUND, of one thousand dollars, given in 1896 by Rev. Albert K. Teele, D.D. (Yale College 1842), is distributed by the President of the University, at his discretion, among needy and deserving undergraduates.

The income of the JAMES MARSHALL SCHOLARSHIP FUND, of about thirteen hundred dollars, established in 1902-04, is used toward paying the tuition annually of some worthy student struggling for an education.

The HENRY PIERSON JOHNES MEMORIAL SCHOLARSHIP FUND, of three thousand dollars, was founded in 1905, by Mr. and Mrs. Goldsmith D. Johnes, of Newburgh, New York, in honor of their son, Henry Pierson Johnes (Yale College 1881), who died in 1898. The income is paid to a student whose home is in the City or Town of Newburgh, New York, if there is in the College such a student, of satisfactory scholarship and high moral character, who is wholly or partly dependent upon his own exertions for support. If at the time of a vacancy in the Scholarship there is more than one student in the College who can satisfy the conditions of the gift, the Dean selects as its recipient the one who, in his judgment, is most worthy. In default of suitable students from Newburgh the income accruing meantime is used by the Bureau of Appointments for the assistance of students who are at the time wholly or partially supporting themselves in College.

### MONITORSHIPS, ETC.

There are also opportunities for students in need of aid to render service to the College as monitors, members of the Chapel choir, etc. In this way about fifteen hundred dollars is disbursed annually. Applications for monitorships should be made to the Registrar of the College.

In general it may be said that the other means of self-help at the command of the students are sufficient to enable many of those who have spare time to provide for the larger part of their College expenses.

### LOAN LIBRARY

By the liberality of William L. Andrews, Esq., of New York City, and as a memorial of his son, Loring W. Andrews (Yale College 1883), a well furnished library has been established, containing text-books and works of reference, to be lent gratuitously to those students who have need to avoid the expense of purchasing books. Permission to use this library is obtained from the Bureau of Appointments.

## SCHOLARSHIPS, FELLOWSHIPS, AND PRIZES

### UNDERGRADUATE SCHOLARSHIPS

Most of the following Scholarships are restricted to Academical undergraduates exclusively ; a few are open also to students in other Departments of the University or may be retained by the incumbent after graduation :

The BRISTED SCHOLARSHIP, founded in 1848 by Charles Astor Bristed (Yale College 1839), of New York City, and having the income of a fund of over two thousand dollars, is awarded, whenever there is a vacancy, to the student in the Sophomore or Junior class who passes the best examination in the Classics and Mathematics. The successful candidate receives the annuity (forfeiting one-third in case of non-residence) until the end of the third year after graduation.

The WOOLSEY SCHOLARSHIPS, each having the income of a fund of one thousand dollars, given by President Woolsey in 1846-48, are awarded in successive years, one to the student in each Freshman class who passes the best examination in Latin Composition (excellence in which is essential to success), in the Greek of the year, and in the solution of problems in the mathematical subjects required prior to Easter

of Freshman year. The examination is held on the third Monday in May and the following Tuesday and Wednesday. The successful candidate receives the annuity during the four years of his College course, provided he maintain a good standing in character and scholarship, and in Sophomore or Junior year make himself acquainted with the Differential and Integral Calculus.

The student who stands second at the examination for the Woolsey Scholarship receives for one year the income of the HURLBUT SCHOLARSHIP FUND, of one thousand dollars, established by Henry A. Hurlbut, of New York City, in 1858-59.

The student who stands third at the above examination receives the income for one year of the RUNK SCHOLARSHIP FUND, of one thousand dollars, given by Charles M. Runk, Esq. (Yale College 1845), of Allentown, Pennsylvania, in 1864.

The SCOTT HURTT SCHOLARSHIP was established in 1889, in memory of Burgess Scott Hurtt (Yale College 1878), by his classmates and friends. The income of a fund of five thousand dollars is assigned in June of each year to a member of the Sophomore class, who is selected by the Faculty on the ground of approved scholarship. One-half of the income is paid to the incumbent during his Junior year, and one-half during his Senior year, provided he continue to be in need of this assistance.

The THOMAS GLASBY WATERMAN FUND, of forty thousand dollars, was received in 1890, from the estate of Thomas Glasby Waterman (Yale College 1886). The income is given to not more than three Scholars, of manly character and limited means, who have distinguished themselves in their studies and give promise of achieving distinction in the line of work which they have chosen. The incumbents are elected annually by the Faculty from the Senior or Junior class, or from graduates of the College of not more than two years' standing.

The ALFRED BARNES PALMER SCHOLARSHIP FUND, of five thousand dollars, was given in 1892, by Rev. Charles Ray Palmer, D.D. (Yale College 1855), in memory of his son, Alfred Barnes Palmer (Yale College 1892). The annual income is paid, during his College course, to a student in avowed need of beneficiary aid, of unexceptionable character, and of high rank in scholarship.

The DANIEL LORD, JR., MEMORIAL FUND, of five thousand dollars, was established in 1894, by Daniel Lord, Esq., of New York City, in memory of his son, Daniel Lord, Jr. (Yale College 1892). The annual income is given to a deserving and needy student in the College, preferably a member of the Senior class, who shall be selected by the Faculty.

The LEARNED SCHOLARSHIPS, two in number, each having the income of a fund of two thousand dollars, established in 1895 by Hon. William L. Learned, LL.D. (Yale College 1841), are awarded, whenever there

is a vacancy, at the close of Freshman year, to students in the College who have been markedly successful in their studies. The incumbents receive the income of the fund through the last three years of the course.

The JOHN J. COX SCHOLARSHIP, established in 1898 by the gift of two thousand dollars from Mrs. John J. Cox, of Peekskill, New York, in memory of her son, John J. Cox (Yale College 1891), is awarded yearly to some needy and worthy student in the College, of high character, selected by the Faculty.

The ROBERT CALLENDER SCHOLARSHIP was established in 1901, by a gift of six thousand dollars from W. R. Callender (Yale College 1894) and J. A. Callender (Yale College 1902), in memory of their brother, Robert Callender (Yale College 1898). The income is awarded annually by the Faculty to some needy student in the College.

The JOHN BENNETTO SCHOLARSHIP FUND, of five thousand dollars, was established in 1902, by the class of 1887, in memory of their classmate, John Bennetto. One-half of the income is given each year to a student in the College who has two more years of study before graduation, and who may hold the Scholarship during two years. The recipient must be a person of sound and strong character, marked ability, and high standing in the College world and in the estimation of his classmates; but in judging of a candidate's qualifications very high scholarship shall not be regarded as indispensable. Should any recipient of the income of this fund return to the College the sum received, or any part thereof, the amount returned shall be added to the fund.

The MAHLON LONG SCHOLARSHIP, established in 1902 by Rev. George Wells Ely, of Columbia, Pennsylvania, and yielding four hundred dollars a year, is open to undergraduate members of either the Academic or the Scientific Department of the University, and is intended to be given yearly during the entire course to the same student, though the appointment or reappointment is made each year.

The MEAD SCHOLARSHIP, having a foundation of over fifteen thousand dollars, established in 1902 by the gift of Solomon Mead, Esq., of Greenwich, Connecticut, is awarded to a student in the College, of good ability and undoubted piety, preparing for the Christian ministry. By recommendation of the President and Professors of the College, the income may be continued to the beneficiary during his theological course in New Haven. It is expected that the recipients of this benefaction will repay the amount which they shall receive, if they shall ever be able to do so without embarrassing themselves, and any money so returned will be used for the benefit of other Scholars of similar character and intentions.

The BENJAMIN F. BARGE SCHOLARSHIP FUND, of five thousand dollars, was established in 1903. The income is used for the assistance of students in any class or Department of the University who have

shown by their industry and attainments that they are worthy of aid in meeting the expenses of the course which they are pursuing.

The WALTER JOSEPH AUSTRIAN SCHOLARSHIP FUND was established in 1904, by a gift of six thousand dollars from Mr. Joseph Austrian, of Chicago, and Mr. Henry Block, of New York City, in memory of Walter Joseph Austrian, of the class of 1907, who lost his life in the disaster at the Iroquois Theater on December 30, 1903. The income is awarded in June, whenever there is a vacancy, to a Freshman in the College, who shall hold the Scholarship, if worthy, until the date of his graduation. In the selection of a candidate stress is laid primarily upon qualities of manly character and influence, and secondarily upon ability and promise of distinction.

The GEORGE BENEDICT SHERMAN SCHOLARSHIP, which was given to a member of the class of 1907 during the years 1904-07, was established on a permanent foundation in 1908. It yields four hundred dollars per year, and is the gift of Mrs. Henry S. Sherman, of Cleveland, Ohio, as a memorial to her son, George Benedict Sherman, of the class of 1907, who died in his Freshman year, October, 1903. The recipient must be a person of limited means, who shows an earnest endeavor in his studies and in the general welfare of his class and College, and who gives promise of a useful career after graduation. He is to be selected from the Freshman class at the beginning of the second term, and he may receive the income during his Freshman and Sophomore years. The award is to be made by the Faculty, on the recommendation of a committee consisting of the Chairman of the Freshman Faculty, the Superintendent of the Bureau of Appointments, and the Dean of the College.

The ANTHONY D. STANLEY MEMORIAL FUND, of ten thousand dollars, was established in 1904, by the will of Walter Stanley Pitkin (Yale College 1858), of Washington, D. C., in memory of Anthony D. Stanley (Yale College 1830), formerly Professor of Mathematics in Yale College. One-half of the income of the fund is given to a needy and deserving student in the College.

The PLAINFIELD SCHOLARSHIP FUND was established in 1907, by Edwin Milner, of Plainfield, Connecticut, by a gift of two hundred and fifty shares of the capital stock of the New York, New Haven, and Hartford Railroad Company. The income of this fund is used in helping worthy students from the County of Windham (preference being given to students from the Town of Plainfield) in securing an education in any Department of Yale University. A Scholarship of five hundred dollars is given each year to a student then entering, and may be held four years.

The LISPENARD STEWART WITHERBEE SCHOLARSHIP FUND was established in 1907, by Mr. and Mrs. Frank S. Witherbee, of New York City, by a gift of ten thousand dollars in five per cent. securities,

in memory of their son, Lispenard Stewart Witherbee, of the class of 1907, who died in Senior year. The income of this fund is awarded each year, on the advice of the Dean, to two or more deserving students in the College who are in need of financial assistance, preference being given to members of the Senior class. The recipients must be persons of sound and strong character, marked ability, and high standing in the College world ; but in judging of a candidate's qualifications very high scholarship shall not be regarded as indispensable. Should any recipient of the income of this fund return to the University the sum received, or any part thereof, the amount returned shall be added at the time to the available income balance of the fund.

CHICAGO SCHOLARSHIPS, in the form of annual loans of six hundred dollars, are offered by the Yale Scholarship Trust of Chicago, a corporation founded January 16, 1903, to be distributed in installments to young men of Illinois, carefully chosen on the basis of personal character and scholarship, who enter Yale College or the Sheffield Scientific School.

The CLEVELAND SCHOLARSHIP was established in 1907, by the Yale Alumni Association of Cleveland, to be offered in competition (beginning in 1908), to boys residing within the limits of the Association who would otherwise be unable to obtain the advantages of an undergraduate course at Yale University. The Scholarship Committee of the Association selects from the successful competitors in the examination the one whom they deem best fitted to be the recipient of the Scholarship, and advances to him the sum of four hundred dollars for each year of his course as a student in Yale College or the Sheffield Scientific School, with the understanding that he shall at some future time repay the sums so received, if he can do so without hardship or self-denial, but no legal obligation of repayment is imposed.

SEATTLE SCHOLARSHIPS, in the form of annual loans of three hundred dollars, are offered (beginning in 1908) by the Yale Club of Seattle to one or more young men, residents of the State of Washington, who enter as undergraduates the Academical or the Scientific Department of Yale University. Only persons who could not go to Yale without financial aid are eligible to receive a Scholarship, and the selection is to be made by a committee of three chosen by the Club. The candidates must be young men of high character and of exceptional ability and promise, and must pass creditable examinations for admission.

The PHILADELPHIA SCHOLARSHIP. Details will be announced in 1909-10.

The WALTER WATERS HUSTED SCHOLARSHIP. Details will be announced in 1909-10.

A number of UNDERGRADUATE SCHOLARSHIPS are noticed in the section on Beneficiary Aid.

**GRADUATE FELLOWSHIPS AND SCHOLARSHIPS**

The following Fellowships and Scholarships are restricted to Yale graduates and in most cases to graduates of the College :

**FELLOWSHIPS**

The **MACY FELLOWSHIP**, being the income of a fund of ten thousand dollars, received in 1865 from a bequest by Rev. William A. Macy (Yale College 1844), of Shanghai, China, who died in 1859, is awarded, whenever there is a vacancy, to a recent graduate of the College, of distinguished scholarship, who may hold it for a term of three years. He shall reside in New Haven, pursuing a course of non-professional study, and shall at the close of each College year present a meritorious thesis in evidence of his work during the previous year.

The **DOUGLAS FELLOWSHIP**, having the income of a fund of ten thousand dollars, was founded in 1873, by Mrs. Samuel Miller, of New Haven, and named in memory of her brothers, Rev. Sutherland Douglas (Yale College 1821) and George H. Douglas (Yale College 1828). The incumbent, who must be a recent graduate of the College, pursuing non-professional studies in New Haven, is elected annually, but no person shall hold the Fellowship for more than three years.

The **FOOTE FELLOWSHIPS**, being the income of a fund of twenty-five thousand dollars, established in 1873 by a bequest from Harry W. Foote (Yale College 1866), of New Haven, are awarded annually to two or more graduates of the College, selected by the Corporation, who remain in New Haven for one or more years pursuing studies in the graduate courses of the Department of Philosophy and the Arts.

The **SOLDIERS' MEMORIAL FELLOWSHIP**, with a foundation of ten thousand dollars, was established in 1875, by Mrs. Theodosia D. Wheeler, of New Haven, in honor of the alumni who fell in battle as Union soldiers in the war of 1861-65, and in special remembrance of William Wheeler (Yale College 1855). The incumbent must be, at the time of his election, a graduate of the College of not more than three years' standing. He shall pursue non-professional studies, and may hold the Fellowship for a period not exceeding five years. In selecting the incumbent the President and Professors are to give preference to one who has shown special proficiency in Greek ; and, for the further prosecution of Greek study, the Fellow may spend a part or the whole of the time of his incumbency in Athens, in connection with the American School of Classical Studies, instead of in New Haven.

The **SILLIMAN FELLOWSHIP**, for which the first installment of funds was received in 1875, was founded in memory of Benjamin Silliman (Yale College 1796), Professor of Chemistry, Mineralogy, and Geology in Yale College from 1802 until his death in 1864. It has the income

of a fund of ten thousand dollars, and is awarded to a graduate of the College who has given evidence of proficiency and promise in some branch of physical science. The incumbent is elected annually, but no person shall hold the Fellowship for more than three years.

The LARNED FELLOWSHIPS, three in number, each having a fund of seven thousand dollars, were founded in 1877, by a bequest from Mrs. Irene Larned, of New Haven, and were augmented in 1888 by a bequest from Mrs. Urania B. Humphrey, of Norfolk, Connecticut. One Fellowship is awarded in each Senior class in the College. The incumbent must reside in New Haven, pursuing a course of advanced study under the direction of the Faculty.

The JOHN SLOANE FELLOWSHIP IN PHYSICS, established in 1889 by the gift of ten thousand dollars from John Sloane, Esq., of New York City, is awarded annually by the Faculty to a graduate of the College who has shown marked proficiency in the study of Physics, and gives promise of success in the prosecution and application thereof. The incumbent shall reside in New Haven for at least thirty-six weeks in each College year, pursuing a course of study in Physics and the related branches of science, and acting as an assistant in the Sloane Physical Laboratory; he may be reëlected, but shall not hold the Fellowship for more than three consecutive years.

The SCOTT HURTT FELLOWSHIP, with a foundation of twelve thousand dollars, was established in June, 1893, by Mrs. Sarah I. Hurtt, of New York City, in memory of her son, Burgess Scott Hurtt (Yale College 1878). The incumbent must be a graduate of the College, of not more than four years' standing at the time of his first appointment, and may hold the Fellowship for three years by annual reëlection. In addition to having a good moral character, the person appointed must have maintained a satisfactory standing in scholarship and must purpose to pursue a scholastic, professional, or scientific career, in which he gives promise of success. He shall, if required by the President and Professors, reside in New Haven for at least one year of his incumbency, during thirty-six weeks of the year, pursuing his studies there; but with this exception may have the privilege of prosecuting his studies at any foreign University, or at the American School of Classical Studies in Athens, or at the American School of Classical Studies in Rome.

The ELLEN BATTELL ELDRIDGE FELLOWSHIPS, two in number, each having the income of a fund of twelve thousand dollars, were established in 1894, by a bequest from Mrs. Azariah Eldridge, of Yarmouth, Massachusetts. The incumbents must be graduates of the College, selected by the President and Professors, and must reside in New Haven, pursuing such a course of study as they may select and the Faculty approve. No Fellow shall continue on the foundation for more than three years.



The CUYLER FELLOWSHIP was established in 1900, by Thomas DeWitt Cuyler, Esq. (Yale College 1874), Cornelius C. Cuyler, Esq., and Miss Eleanor de Graff Cuyler, in memory of their brother Theodore Cuyler (Yale College 1882). The income of a fund of ten thousand dollars is awarded each year to a graduate of the College who is pursuing a course of study under the direction of the Faculty.

The JOHN ADDISON PORTER MEMORIAL FELLOWSHIP was established in 1901, by a gift of ten thousand dollars from Mrs. Josephine S. Porter, in memory of her husband, Professor John Addison Porter (Yale College 1842), and of her son, John Addison Porter (Yale College 1878). The incumbent must be a graduate of Yale College or of the Sheffield Scientific School, selected for distinguished excellence and promise in the department of English. The Fellowship may be held for three years, and the incumbent is allowed to pursue studies, under the direction of the Professors in the Department of Philosophy and the Arts, "in the English language and literature and cognate subjects," either at New Haven or elsewhere.

The JOHN J. ABERNETHY FELLOWSHIP, with a foundation of ten thousand dollars, was established in 1907, by a provision in the will of Dr. John Jay Abernethy (Yale College 1825), who died in New York City in 1879, to be awarded to recent graduates of the College by the President and Professors.

The WILLIAM BORDEN FELLOWSHIP, yielding eight hundred dollars annually, is offered to the Phi Beta Kappa Society for five years, beginning with 1908-09, by Mr. John Borden, of the class of 1906, in memory of his father, William Borden, of Chicago, who died in 1906. It is to be awarded annually in May to a member of the Phi Beta Kappa Society who is then in the graduating class. The selection is to be made by a Committee consisting of the Graduate and Undergraduate Presidents of the Society and the Dean of the College, and the recipient of the Fellowship is to spend the following year in study in a European university, to be determined by said Committee.

The MARSHALL S. BIDWELL FELLOWSHIP, with a foundation of ten thousand dollars, was established by a bequest for this purpose, received in 1908, from Benjamin Douglas Silliman (Yale College 1824). The income is to be given to a graduate of the College, selected annually by the Faculty for his personal merit and his ability and promise as a scholar. The recipient must pursue non-professional studies, to be prescribed by the Faculty, and must reside at the College thirty-six weeks of the academic year. The same person may hold the Fellowship for not more than two successive years.

Other FELLOWSHIPS, not restricted to Yale graduates, are noticed in the section on the Graduate School.

## SCHOLARSHIPS

The BERKELEY SCHOLARSHIP, founded in 1733 by Rev. George Berkeley, Dean of Derry and afterwards Bishop of Cloyne, Ireland, and yielding about seventy dollars a year, is awarded to the student in each Senior class who passes the best examination (which must be a creditable one) in the Greek Testament (*Pauline Epistles*), the first book of Thucydides, the first six books of Homer's *Iliad*, Cicero's *Tusculan Questions*, Tacitus (except the *Annals*), and Horace ; provided he remain in New Haven as a graduate one, two, or three years.

The CLARK SCHOLARSHIP, being the income of a fund of two thousand dollars, given in 1824 for this purpose by Mr. Sheldon Clark, of Oxford, Connecticut, is awarded in each Senior class to the applicant who has attained the highest rank in the studies of the course ; provided he remain in New Haven for one year or two years immediately after graduation, pursuing a course of non-professional study under the direction of the Faculty.

The W. W. DEFOREST SCHOLARSHIP, being the income of a fund of two thousand dollars, bequeathed in 1867 by William Wheeler DeForest, of New York City, is awarded to a student in each Senior class who has attained distinction in the study of French while in College, provided he pursue for the year after graduation a further course of study in the modern languages, especially French, Spanish, Portuguese, or Italian, under the direction of the Faculty.

The DANIEL C. EATON GRADUATE SCHOLARSHIP IN BOTANY is endowed with the income of a fund of two thousand dollars, given by Mrs. Eaton in 1897 to establish a Graduate Scholarship in Botany in commemoration of her husband, Professor Daniel C. Eaton (Yale College 1857). This Scholarship is open for competition to members of the Senior classes in Yale College and the Sheffield Scientific School on conditions to be prescribed by the Governing Board of the Sheffield Scientific School.

The following SCHOLARSHIPS announced in the sections on Beneficiary Aid and on Undergraduate Scholarships may be continued or awarded to graduates :

The DAVID C. DEFOREST SCHOLARSHIPS ;

The BRISTED SCHOLARSHIP ;

The THOMAS GLASBY WATERMAN SCHOLARSHIPS ;

The MEAD SCHOLARSHIP ;

The BENJAMIN F. BARGE SCHOLARSHIP ;

The PLAINFIELD SCHOLARSHIPS.

Other SCHOLARSHIPS, not restricted to Yale graduates, are noticed in the section on the Graduate School.

**UNDERGRADUATE PRIZES AND PREMIUMS**  
**NOT RESTRICTED TO A SINGLE CLASS**

The LUCIUS F. ROBINSON LATIN PRIZES, from the income of a fund of five thousand dollars given in 1887 by the daughters of Lucius F. Robinson (Yale College 1843), of Hartford, will be awarded the present year to students showing special proficiency in Latin—one series of prizes (of fifty, thirty, and twenty dollars, respectively) being open to members of the Senior and Junior classes who are taking at least two hours of work per week in Latin; and a second series, of the same amounts, to members of the Sophomore class who have elected Latin. The awards will be based on the regular class-room work in Latin for the entire year, and on a special written examination (to be held on Monday, June 7, 1909) in translation at sight and on Cicero's *Second Philippic*.

The THACHER MEMORIAL FUND, of three thousand dollars, established in 1892 by gifts from members of the class of 1842 and named in honor of their former instructor, Professor Thomas A. Thacher (Yale College 1835), is devoted to the encouragement of the practice of extemporaneous debate.

The JOHN HUBBARD CURTIS PRIZE, the income of a fund of twenty-five hundred dollars, established in 1900 by Mrs. Virginia H. Curtis, in memory of her son, John Hubbard Curtis (Yale College 1887), is awarded each year to a student in the College for excellence in literary or rhetorical work.

The BENJAMIN F. BARGE MATHEMATICAL PRIZES, established in 1900-01 and amounting to two hundred dollars, are given annually from funds provided by Benjamin F. Barge, Esq. (Yale College 1857). A series of three prizes (first prize, fifty dollars; second, thirty dollars; third, twenty dollars) is awarded in each of the two lower classes in the College. The prizes are awarded, in general, for the solution of original problems.

The JOHN ADDISON PORTER PRIZE IN AMERICAN HISTORY, founded in 1901 by Amy Betts Porter, in memory of her husband, John Addison Porter (Yale College 1878), and consisting of the income of two thousand dollars, will be awarded for the year 1908-09 for the best original essay by a member of the Senior or Junior class in the College on one of the following subjects:

1. Development of the Constitution by Judicial Decisions.
2. Education in the South.
3. Negro Soldiers in the United States Army.
4. The Impeachment and Trial of President Johnson.
5. The Public Life of Grover Cleveland.

To the essays should be prefixed a classified bibliography of the

authorities consulted, and precise references in foot-notes to these authorities should be given for all important statements made in the text. Each essay must be typewritten, signed by a fictitious name, and handed in under cover, accompanied by a sealed envelope containing the assumed name and the real name of the writer. The essays must be deposited with the Secretary of the University not later than February 22, 1909.

The ANTHONY D. STANLEY MATHEMATICAL PRIZES were established in 1904, by the will of Walter Stanley Pitkin (Yale College 1858), of Washington, D. C., in memory of Anthony D. Stanley (Yale College 1830), formerly Professor of Mathematics in Yale College. One-half of the income of a fund of ten thousand dollars is awarded in prizes to students in the College for proficiency in mathematical study and research.

The ANDREW D. WHITE HISTORY PRIZE, of twenty-five dollars, was founded in 1907, by an anonymous donor, to be offered annually to Sophomores and Freshmen in the College for highest excellence in the library work of History A1.

The CHARLES WASHBURN CLARK PRIZE, of one hundred dollars, established by a bequest from Charles Washburn Clark (Yale College 1875), is awarded biennially in June, commencing in 1909, for the best essay by a member of the Senior or Junior class in the College on the political morality and methods of the United States compared with those of England, Germany, France, Switzerland, and Japan (or of any other group of five countries which may appear to the writer to afford better object-lessons than the countries named), and the lessons to be learned from the same.

See also the BRISTED SCHOLARSHIP, in the section on Undergraduate Scholarships. Most of the UNIVERSITY PRIZES, too, described on later pages, are open for competition to all students in the College.

#### FOR SENIORS

The DEFOREST PRIZE, founded in 1823 by David C. DeForest, of New Haven, and consisting of a gold medal, of the value of one hundred dollars, is awarded "to that scholar of the Senior class who shall write and pronounce an English Oration in the best manner," the President and Professors being judges.

TOWNSEND PREMIUMS, five in number, of twelve dollars each, founded in 1843 by the gift of Isaac H. Townsend (Yale College 1822), of New Haven, are awarded in each Senior class for the best specimens of English Composition. All compositions receiving premiums must be read in public. The following are the subjects for the year 1908-09:

1. Socialism in College.
2. Certain Moral Ideals in American Literature.
3. Pittsburg.
4. Modern Applications of Faith Healing and Kindred Ideas.
5. Undergraduate Religious Life at Yale.
6. The United States in Trade with China.
7. Certain Effects of Immigration on Religious Problems in the United States.
8. The Power of the President.
9. "The White Man's Burden."
10. The Call of the Ministry.
11. Carlyle and Newman, a Study in Contrast.
12. Journalism in College.
13. The Hudson-Fulton Commemoration.
14. Social Effects of Electric Railroads on Rural Communities.
15. The Brotherhood of Locomotive Engineers.
16. The Yale Dramatic Association.
17. The District Attorney.
18. The Future of the Democratic Party.
19. The "Modernist" Movement.
20. "Government by Injunction."
21. School Spirit, College Spirit, and University Spirit.
22. Traditions at Yale.
23. (The Subject of the Current Intercollegiate Debate.)

Within the limits of reasonable implication these subjects may be divided or adapted. Manuscripts in competition must be registered at 15 White Hall on Tuesday, March 30, 1909, before noon. They should be composed for effective oral delivery in about fifteen minutes. At the preliminary oral trials on April 19 six speakers will be chosen to compete for the DeForest Prize on May 3.

The DEFOREST MATHEMATICAL PRIZES were established in 1855, by Dr. John DeForest (Yale College 1826), and were augmented in 1886 by his son, E. L. DeForest (Yale College 1854), of Watertown, Connecticut. A first prize of one hundred dollars and three second prizes of fifty dollars each are offered to the Senior class for worthy solutions of problems in Pure and Applied Mathematics.

See also the BERKELEY SCHOLARSHIP and the DANIEL C. EATON GRADUATE SCHOLARSHIP IN BOTANY, in the section on Graduate Scholarships; and Prizes and Premiums not restricted to a single class, above.

## FOR JUNIORS

WINTHROP PRIZES, the income of a fund of five thousand dollars, given in 1871 by Buchanan Winthrop, Esq. (Yale College 1862), of New York City, are annually offered to the Junior class "for the most thorough acquaintance with the Greek and Latin poets," particular attention being paid to elegance of scholarship and appreciation of the spirit of the poetry, as shown at an examination held on the third Monday in May and the following Tuesday. The first prize is two hundred dollars, and the second prize is the remainder of the income for the year. The subjects for examination for the class of 1910 are as follows: (Greek) The Bucolic Poets, Theocritus, Bion, and Moschus; (Latin) Vergil's *Æneid*.

SCOTT PRIZES for excellence in German and in French are offered to the Junior class; they are of the value of thirty dollars each, and are given in books. The prizes were founded by a bequest from Henry W. Scott (Yale College 1863), of Philadelphia, received in 1873.

In the current year, and thereafter until further notice, the Scott Prize in German will be awarded to that member of the Junior class who shall pass the best examination (to be held during the latter half of the second term) in the following dramas: Lessing's *Nathan der Weise*; Goethe's *Egmont* and *Iphigenie auf Tauris*; Schiller's *Wallenstein-Trilogie*; H. von Kleist's *Käthchen von Heilbronn* and *Prinz Friedrich von Homburg*. Students may at any time apply to Professor Palmer for information in detail.

In the current year, and thereafter until further notice, the Scott Prize in French will be awarded to that member of the Junior class who shall pass the best examination (to be held during the latter half of the second term) in the following dramas: Corneille's *Cid* and *Horace*; Racine's *Andromaque* and *Athalie*; Molière's *Misanthrope* and *Femmes Savantes*; Beaumarchais's *Barbier de Séville*; Victor Hugo's *Ruy Blas*. Students may at any time apply to Professor Sanderson for information in detail.

The HENRY JAMES TENEYCK PRIZES, the income of a fund of twenty-six hundred dollars, established in 1888 by the Kingsley Trust Association, in memory of Henry James TenEyck (Yale College 1879), are awarded to the successful competitors at the Junior Exhibition, in the second term of each year. The following are the subjects for the year 1908-09:

1. The University as an Ideal Society.
2. Municipal Tenements.
3. The American Citizen Soldier.
4. The Frontier.
5. The Quebec Tercentenary.

6. The Hague Tribunal.
7. The California Missions.
8. A Great English School : Harrow.
9. The Rebuilding of San Francisco
10. The Monroe Doctrine To-day.
11. *The Pilgrim's Progress.*
12. College Debating.
13. The Cooper Institute.
14. The Working Out of the Fifteenth Amendment.
15. The College Community's Measure of a Man.
16. Socrates and Aristophanes.
17. The New Phase of Prohibition.
18. The Amateur Spirit in College.
19. Missions to the American Indians.
20. Town and Gown.
21. (The Subject of the Current Intercollegiate Debate.)

Within the limits of reasonable implication these subjects may be divided or adapted. Manuscripts in competition must be registered at 15 White Hall on Friday, March 5, 1909, before noon. They should be composed for effective oral delivery in about twelve minutes. At the preliminary oral trials on March 12 five speakers will be chosen to compete at the Junior Exhibition on March 26.

See also Prizes and Premiums not restricted to a single class, above.

#### FOR SOPHOMORES

The C. WYLLYS BETTS PRIZE, established in 1890 by the Phelps Association, being the income of a fund of one thousand dollars given by L. F. H. Betts, Esq. (Yale College 1891), in memory of his uncle, C. Wyllys Betts, Esq. (Yale College 1867), of New York City, is offered to the Sophomore class for excellence in English Composition. The prize is awarded annually to that member of the class who has exhibited the most meritorious work in the required compositions of the year and in a special essay on a prescribed subject. The special essay prescribed for the class of 1911 will be on one of the following topics :

1. The American High School as a Training in Democracy.
2. Thoreau.
3. The Coffee-House.
4. English Elegies.
5. Fate in *Ædipus Rex* and in *King Lear*.
6. (The Subject of the Sophomore-Freshman Debate.)

Essays in competition are due at 15 White Hall on Saturday, May 22, 1909, at noon.

The DONALD ANNIS PRIZE. Details will be announced in 1909-10.

COLLEGE PREMIUMS are given each year in the Sophomore class for Declamation.

See also Prizes and Premiums not restricted to a single class, above.

#### FOR FRESHMEN

BERKELEY PREMIUMS, in books, for excellence in Latin Composition are offered annually to the Freshman class, from the surplus income of the Berkeley Scholarship Fund. The examination is held on the Tuesday following the third Monday in May.

The McLAUGHLIN MEMORIAL FUND, consisting of eleven hundred dollars, established in 1893 as a memorial of Edward Tompkins McLaughlin (Yale College 1883), Professor of Rhetoric and Belles Lettres in Yale College at the time of his death in 1893, is devoted to the encouragement of English Composition in the Freshman class. From the income of this fund a first and second prize, in books, are offered for the current year.

The WINSTON TROWBRIDGE TOWNSEND PRIZES, given by Judge William K. Townsend (Yale College 1871), in memory of his son, a member of the class of 1901, are annually awarded for excellence in English Composition in the Freshman class.

The McLAUGHLIN MEMORIAL PRIZES and the WINSTON TROWBRIDGE TOWNSEND PRIZES will be awarded in 1909 for the best essays on any of the following topics :

1. Tennyson's College Friends.
2. Shylock and *The Jew of Malta*.
3. Nathan Hale.
4. (The Subject of the Freshman Debate with Harvard);

or for a translation into English verse of one hundred lines from one of the following :

1. Hugo's *Les Châtiments*.
2. Schiller's *Wallensteins Tod*.
3. Vergil's *Eclogues*.
4. The *Bacchæ* of Euripides.

Manuscripts in competition are due at 15 White Hall on Saturday, April 17, 1909, at noon. Attached to each essay should be a sealed envelope containing the writer's name.

See also the WOOLSEY, HURLBUT, and RUNK SCHOLARSHIPS, in the section on Undergraduate Scholarships; and Prizes and Premiums not restricted to a single class, above.

#### FOR EXCELLENCE IN ENTRANCE EXAMINATIONS

The HUGH CHAMBERLAIN GREEK PRIZE, being the income of one



thousand dollars given for this purpose, in 1886, by Hon. Daniel H. Chamberlain (Yale College 1862), is awarded annually to that member of the Freshman class who has passed the best examination in the Greek required (of those who do not offer substitutes) for admission to the College. Candidates for this prize are required to pass the whole examination in Greek in June of the year of their entrance into College, even though they may have passed in some or all of the Greek subjects in a previous year.

The SAMUEL HENRY GALPIN LATIN PRIZE, being the income of one thousand dollars given for this purpose, in 1901, by Samuel Arthur Galpin, LL.B., in memory of his father, Samuel Henry Galpin (Yale College 1835), is awarded annually to that member of the Freshman class who has passed the best examination in the Latin required for admission to the College. Candidates for this prize are required to pass the whole examination in Latin in June of the year of their entrance into College, even though they may have passed in some or all of the Latin subjects in a previous year.

TWO KANSAS CITY PRIZES, of twenty-five dollars each, one in Yale College and one in the Sheffield Scientific School, were established in 1907, by the Yale Alumni Association of Kansas City, to be awarded to candidates who reside in the territory covered by this Association, for the best examination for admission. The examinations, whether preliminary or final, must be taken in Kansas City. The candidate must be admitted without conditions, and must enter as a member of the class with which he has been examined.

See also the CHICAGO, CLEVELAND, and SEATTLE SCHOLARSHIPS, in the section on Undergraduate Scholarships.

### **APPOINTMENTS AND HONORS**

To promote the rational choice of electives and give due recognition to good scholarship, Honors in Special Studies are conferred, and there are issued each year Junior and Senior Appointment Lists (on the work of the first half and of the whole of the College course, respectively) and Honor Lists on the studies of Freshman and of Junior year.

The Honors in Special Studies are conferred at the end of Senior year in the following groups of studies :

- Classical Languages and Literature ;
- Biblical Literature and Semitic Languages ;
- Romance Languages and Literature ;
- Germanic Languages and Literature ;

English Language and Literature ;  
Music ;  
Mathematics ;  
Physical Sciences ;  
Natural Sciences ;  
Philosophy ;  
History ;  
Social Sciences.

A candidate for special honors must pursue with distinction courses aggregating nine hours of work of B and C or D grades, of which at least four hours must be of C or D grade, and must present a meritorious thesis embodying the results of individual research. The instructor under whose direction the thesis is to be written must be consulted before December 1 of Senior year ; notification of candidacy must be filed (by the candidate) at the Dean's Office before May 1 ; and the thesis, which must be typewritten, must be presented before June 1.

Courses in Sanskrit and in Classical Archæology may be counted as a part of the work in the Classical Languages.

Courses in Old and Middle English may be counted as a part of the work in the Germanic Languages.

Honors in Music are given for distinguished work in all the courses offered to undergraduates.

A candidate's whole work in courses of grades B, C, and D in any group, though it may be more than the minimum requirement for honors, is taken into account in conferring honors in that group.

### DEGREE

The degree of BACHELOR OF ARTS is conferred by the Corporation on those persons who have completed the course of Academical exercises, as appointed by law, and have been approved on examination at the end of the course as candidates for the same. Candidates are required to pay their dues to the Bursar as early as the Saturday before Commencement.

## COURSES OF INSTRUCTION

### GENERAL AIM AND SCOPE OF INSTRUCTION IN THE SEVERAL SUBJECTS OF STUDY

I. **LATIN.** The course in Latin which is designed especially for Freshmen includes Livy (Books i and ii or Selections), Tacitus (the *Agricola* and *Germania*), and Horace (the *Satires*). These authors are selected for their intrinsic interest and with the intention of giving a variety of work. In the first term (Livy) especial attention is given to training and practice in translating prose Latin at sight; in the first half of the second term (Tacitus) stress is laid upon the character and contents of the pieces read, as historical documents; in reading Horace attention is given more particularly to literary characteristics and analysis of the author's thought.

For Sophomores, Juniors, and Seniors, courses are offered which afford an opportunity either to continue the study of Latin literature as part of a liberal education or to make special preparation for teaching Latin; also an elementary course in Roman Law. Work of D grade, outside of the regular courses, will be provided, and students who give evidence of unusual capacity and attainments may be admitted to membership in graduate classes.

Suggestions as to the choice of Latin courses may be found at the head of the section on Latin in the detailed statement of courses.

II. **GREEK.** The student who presents Greek in his examination for admission to College may continue the study of Greek during each of the four years of his College course. During the first two years he may read selections from Homer, Herodotus, and Plato, and representative plays of Æschylus, Sophocles, Euripides, and Aristophanes. These works are selected with a view to making the student familiar with several leading branches of Greek literature and some of the most interesting phases of Greek life and thought. The most important grammatical principles are reviewed in Freshman year; in Sophomore year grammatical questions are discussed rarely, except as they are necessary for the interpretation and illustration of the author's meaning. In reading the works of the poets less attention is paid to linguistic and grammatical points than to literary quality, to the structure of the poems, to poetic words, forms, arrangement of words, rhythm, and constructions; but the growth and development of the language are discussed, as well as the development of the literature. In reading the prose authors the connection of thought and of events is made prominent. Greek prose composition is practiced only so far as to aid the student in reading Greek authors and to quicken his perception of nice distinctions in the order and choice of words and in construction.

In the more advanced courses of Junior and Senior years the student has the opportunity of reading other Greek dramas and other dialogues of Plato, parts of Aristotle, the *Odes* of Pindar, and the *Idylls* of Theocritus; of doing broader and more critical work on the Homeric poems than is suited to the first College year; and of practicing more advanced Greek composition. Selected dialogues of Lucian are occasionally read, and courses in Platonic and Aristotelian philosophy are offered in the group of courses in Philosophy.

III. CLASSICAL ARCHÆOLOGY. The subjects covered in this group, which is closely allied with the two preceding ones, are Greek Sculpture, Architecture, and Lesser Arts, Topography and Monuments of Athens, and Roman and Etruscan Art.

IV. SANSKRIT, LINGUISTICS, AND COMPARATIVE PHILOLOGY. The courses offered under this head are intended for students of language, including students of the modern languages as well as classical students. The course in Elementary Sanskrit is intended to show the classical student the close connection between this language and Greek and Latin. The courses in Phonetics, Linguistics, and Comparative Syntax aim to give a broader knowledge of language in general and especially of the Indo-European group of languages.

V. BIBLICAL LITERATURE AND SEMITIC LANGUAGES. Work in this field may begin in Sophomore year and continue through Senior year. Some courses—such as Biblical Literature and History, Historical Origin of Christianity, and Life and Literature of the Apostolic Age—are offered primarily for general students of history and literature; others are intended especially for those who desire to anticipate the work of the first year in the Divinity School or to specialize in Biblical literature and history or in Semitic languages.

VI-VIII. ROMANCE LANGUAGES (FRENCH, ITALIAN, SPANISH). The student who has passed the entrance examination in French may continue the study of that language during each of the four years of his College course, if he so elect; the student who has not passed the entrance examination in French may, if he desire, begin the study of French in College.

To the properly equipped student, *i. e.*, one who has had two years of French in College, or the equivalent, courses of two different sorts are open, from which he may choose according to his special wants, with the advice of the instructors: (*a*) linguistic courses, conducted in French and combining the study of some literary topic with practice in speaking and writing; (*b*) literary courses, in each of which the leading writers of some particular period are read and studied.

The study of Spanish and of Italian may be begun in Sophomore and in Junior year, respectively, and may be continued to the end of the College course.

IX, X. GERMANIC LANGUAGES (GERMAN, SCANDINAVIAN). The student who has passed the entrance examination in German may continue the study of German during each of the four years of his College course, if he so elect. The student who has not offered German in the examination for admission may, if he desire, begin the study of German in either Freshman or Sophomore year and pursue it for four or for three years, respectively. No elementary instruction in the language is given to Juniors or Seniors.

The courses for the successive years may be outlined as follows: During the first year the work consists of German grammar, and of the translation of easy English phrases, sentences, and connected prose into German, and of easy German prose into English. Constant sight-translation is used as a means of developing and strengthening the student's vocabulary and of freeing him from dependence upon the lexicon and from the word-by-word methods which its use encourages. Especial care is devoted to pronunciation. The work of the second year continues and extends that of the first year, taking up the translation of more difficult German prose, both with previous preparation and at sight, the study of word-formation, and the translation of more difficult English prose into German. Throughout the two years the aim in reading German is to cover as much ground as possible—from 500 pages upwards—in the belief that thereby the student will acquire better command of the language than if a smaller amount is read with rigid attention to grammatical details. It is expected that at the end of the second year the student will have adequate preparation for the use of the language in his work in other branches of study. Those, therefore, who are studying German solely with this end in view may perhaps discontinue class-study at this point; but no student should begin the study of the language unless he expects to devote at least two years to it. For the remaining years the courses vary from year to year; but opportunity is given for the critical study of works of leading authors and for the study of periods in the history of German literature.

There are courses in which German alone is spoken, and, in general, German is constantly read aloud in the class-room, with the object of improving the student's pronunciation and helping him to acquire some facility in expressing his ideas in German. But it is not a leading aim in the instruction in German to enable the student to converse in that language. Training in the ordinary conversational idiom may be had more profitably elsewhere and cannot form any considerable part of the class-room work. The student may acquire the language as a tool for use in other departments of study, and may come in contact with the best works of German literature, studying the form and contents of each and the life and environment of its author; fluency in conversation must be acquired where the conditions are more fitted to the object which they are to effect.

Under the head of Scandinavian are offered elementary courses in Norwegian and Danish and in Swedish.

Suggestions as to the choice of German and Scandinavian courses may be found at the head of the section on Germanic Languages in the detailed statement of courses.

XI. RUSSIAN. Elementary instruction in this language is offered.

XII. JAPANESE. Courses are offered in Elementary Japanese and in Modern Practical Japanese.

XIII. ENGLISH. The course pursued by those Freshmen who elect English occupies three hours a week, and is based upon the careful study of a few important books, chiefly of the nineteenth century. The work as a whole has for its object to cultivate in the student the habit of careful, critical reading of the best English literature. The Sophomore course in English literature has the same main object, but it also introduces the student to the chief earlier epochs of literary history and provides a general background for later and more specialized study.

Of the two elementary courses in rhetoric, which are open to, and especially intended for, Sophomores, one aims at a survey of the whole field of prose composition, a general training in fundamental principles and in the habit of expression, and a special training in exposition. The weekly recitations and lectures are auxiliary to the instruction given to each student in conference on frequent essays. The other elementary course deals with the principles and practice of oratory.

Courses in oral expression (declamation and public reading) are open to Freshmen, Sophomores, and Juniors, respectively.

The DeForest, Townsend, TenEyck, Betts, McLaughlin, and Winston Trowbridge Townsend prizes (described in an earlier section) are under the superintendence of the senior Assistant Professor of Rhetoric. For the present year a prize in poetry, of the value of fifty dollars, is offered to students in the University by Professor Cook.

The more advanced work in English follows different, though related, lines. Instruction is offered: (1) in the earlier stages of the language, with reference as well to the reading of the older literature as to linguistic discipline; (2) in rhetoric; (3) in literary theory and the principles of literary criticism; (4) in the evolution of certain literary forms; (5) in the study of various periods, classes of writers, and individual authors. But two or more of the purposes here distinguished are often embraced within the scope of a single course.

The larger number of the courses in English are intended to be disciplinary as well as instructive; in other words, they have in view the development of insight and power no less than the imparting of

information. The more advanced courses, however, *i. e.*, those of the two highest grades, are designed chiefly for students in pursuit of scholarly rather than general culture, and those who have not a specialist's interest in literary scholarship are advised not to elect them without consulting the instructors.

**XIV. THE FINE ARTS.** The School of the Fine Arts aims to provide instruction in the arts of design. Instruction is offered to Academical students in Drawing, Architecture (the elements), Painting, and Modeling.

**XV. MUSIC.** This Department aims to provide adequate instruction for those who intend to become professional musicians, either teachers or composers. In all the courses a knowledge of piano-playing is required.

**XVI. MATHEMATICS.** During the first year Plane Trigonometry, Advanced Algebra, and Solid Geometry may be studied. Freshmen and Sophomores who have passed Solid Geometry and Plane Trigonometry may take up the study of Analytical Geometry and Calculus.

The remaining mathematical courses fall into three main groups, namely, Pure Mathematics, Mathematical Physics, and Engineering Sciences. Detailed suggestions as to choice of courses may be found at the head of the section on Mathematics in the detailed statement of courses, and students who intend to pursue graduate studies in any one of the lines mentioned should follow these suggestions rather closely.

**XVII. PHYSICS.** The instruction in Physics is begun in Sophomore year. Two alternative courses are offered to the beginner in the subject. The first of these (A 1) is designed to meet the needs of those students who desire only a single course in the subject, as part of a general education. The other course (B 3) requires Mathematics A 1, and is intended for those who desire a more satisfactory introduction to the subject, as a preparation for further work in Physics or in other branches of science. This second course must be taken by all who are to continue the study of Physics in College. Both courses are conducted by recitations, liberally illustrated by means of apparatus and experiments, and by occasional lectures. A supplementary course of one hour a week (B 5), designed to give additional practice in the solution of problems, is offered to students taking B 3. For students who desire a more detailed acquaintance with experimental methods an elementary laboratory course is offered, which may be taken simultaneously with the general course described above (B 3) or may be deferred until the following year. To those who have taken one or both of these two courses and have adequate mathematical training more advanced courses are open, of which a full

description, together with suggestions as to the choice of courses, may be found in the section on Physics in the detailed statement of courses.

**XVIII. CHEMISTRY.** A course in Inorganic Chemistry is open to all classes. Students who wish to master during the College course those branches of Chemistry which are required for admission to medical or technical schools, or which are anticipatory of work otherwise required in such schools, should take this course as early as possible. It is prerequisite to the other courses in this group and to the courses in Mineralogy and in Physiological Chemistry, and is desirable for those who propose to take other courses in science. Instruction is given by lectures and in the laboratory; and frequent examinations, written or practical, serve to review and emphasize essential facts and principles, as well as to test the progress of the student.

A course in Qualitative Analysis and one in Organic Chemistry are open to students familiar with the subject-matter of the course in Inorganic Chemistry. A course dealing with typical gravimetric and volumetric methods of Quantitative Analysis may follow or accompany the course in Qualitative Analysis, and courses in the Rare Elements and in Physical Chemistry are open to students sufficiently advanced. A lecture course, dealing with the relations of the Carbon Compounds, is open to properly qualified undergraduates. To students of distinguished ability and attainment are open, by permission, courses which afford practice in the use of original literature and in the experimental methods applied in the study of Inorganic Reactions, Preparation Processes (dealing with the rare elements and their compounds), Chemical Theory, and Organic Preparations. In special cases undergraduates may be admitted to research courses and other courses which are intended primarily for graduates.

Further suggestions as to the choice of courses may be found at the head of the section on Chemistry in the detailed statement of courses.

**XIX. THE GEOLOGICAL SCIENCES.** The instruction under this head is planned to meet the wants of two classes of students: (1) those who wish a knowledge of the structure and history of the earth as a means of general culture, and (2) those who intend to make Geology or some related science their chief life-work. To this end an introductory course in General Geology is offered, in which are discussed the elementary facts of earth-structure, the geological processes by which the earth has attained its present form and surface features, and the evolution of living beings. These subjects are abundantly illustrated by laboratory and field practice. Students who have completed one year of study, and wish to continue, may select work in one of the several branches of Geology and will be encouraged to carry on special



investigations. The lines of study now open to undergraduates are Mineralogy, Structural Geology, Physiography, and Historical Geology in its many phases, including Paleontology. The collection of minerals, rocks, maps, and other illustrative material is ample for all branches of the subject, and the New Haven region is well suited to give practical field experience.

For students whose interests are mainly geographical, instruction is offered in a series of regional courses following the introductory course in Physical and Commercial Geography. These courses apply to the several continents the fundamental geographical principle of the exercise of influence in man's activities by the physical elements of his environment. They begin in each case with the early development of geographical knowledge in relation to the continent under consideration, follow the course of exploration and colonization, and trace the variable influence of geographical factors in the customs, character, and changing political and commercial fortunes of the people. The unit of study is the natural region, and human activities are referred to a physical classification. A course in Geographic Controls in History continues the instruction in the application of geographical principles to human affairs, and advanced work in the purely physical features of the earth is offered in the courses in Physiography.

Suggestions as to the choice of courses may be found at the head of the section on the Geological Sciences in the detailed statement of courses.

**XX. THE BIOLOGICAL SCIENCES.** The courses offered are designed to meet the needs of the following classes of students: (a) those who wish to acquire some general knowledge of this branch of science; (b) those who wish to prepare for the study of Forestry; (c) those who intend to study Medicine; and (d) those who look forward to specialization in some line of biological work. The course in Elementary Biology is not only introductory to the more advanced courses, but will suffice to give the general student a well rounded idea of the subject. To the general student are addressed also the course in Organic Evolution and the elementary course in Physiology. Those who have completed Elementary Biology and wish to pursue more advanced work will find three lines of study open to them, any one of which may be chosen as a major subject: (1) Botany, (2) Comparative Anatomy and Zoology, and (3) Physiology and Physiological Chemistry. Attention is called also to the combined Academical and Medical course, which includes the following courses that may be taken by Academical undergraduates: Human Anatomy (two courses), Human Histology and Embryology, Physiology, Physiological Chemistry, Physiology of Physical and Nervous Functions, Pathology and

Bacteriology, and Pharmacology and Toxicology. By taking this group of courses a student is able to anticipate two years of work in the Medical School and thus to obtain both the degree of B.A. and the degree of M.D. in six years. Other details about the group of courses as a whole may be found at the head of the section on the Biological Sciences in the detailed statement of courses.

**XXI. PHILOSOPHY.** The introductory courses in this group are planned to meet the needs of students who elect Philosophy for the sake of general culture, as well as to lay the foundation for more advanced work in the subject. They aim to awaken an intelligent interest in the fundamental problems of life and mind, to foster independence of judgment, and to develop the power of methodical and accurate thinking. The course in Logic lays special stress on the nature of reasoning, the conditions of proof, and the principles of science. The introductory course in Psychology includes a general survey of the conscious processes and a consideration of the scientific methods of psychological investigation. The course in History of Philosophy aims to give the student an appreciation of what is permanently significant in the world-views of the greatest philosophers, and thus to prepare him to face present-day problems in the light of the wisdom of the past. It is also an important adjunct in the study of history and of social science. In the course in Elements of Philosophy the problems of Philosophy are studied topically. These courses are all open to Sophomores, and students are advised to elect at least one of them in Sophomore year.

For Juniors and Seniors there are, besides a general course in Ethics, advanced courses in the several branches of Philosophy. These include courses in Psychology specially planned to meet the needs of students who are intending to take a medical course and of those who expect to teach, and seminary courses specially intended for graduate students and for those who expect either to make Philosophy their life-work or to take up a calling for which training in Philosophy is an important auxiliary.

**XXII. THEORY AND PRACTICE OF EDUCATION.** The courses under this head are designed especially for students who expect to teach.

**XXIII. HISTORY.** The courses in History begin with a general survey of European History from the decline of the Roman Empire to the close of the nineteenth century. The work in this course, which is open to Freshmen and is introductory to all the other courses except those which deal with Ancient History, is based upon a syllabus and upon readings in selected sources and in a considerable variety of text-books and more detailed modern narrative histories. To those who take this general course in Freshman year there is open in Sophomore year a course in English Political History.

The work in Junior and Senior years consists of more detailed courses on particular periods in European and American History, and of general courses in Ancient, Medieval, and Modern Oriental History and in the History of Greece and Rome. In all these courses the attempt is made to familiarize the student not only with the present state of knowledge and opinion in the several fields, but also with some of the representative works of modern scholarship which deal with them. In a number of the courses the students have practice in bibliography and in the use of the sources in dealing with precise problems of research and criticism ; in others essays requiring a more general range of reading and designed to arouse interest in the broader aspects of History form an important part of the work.

XXIV. ANTHROPOLOGY. This group begins with a course, given in common with the Geological Sciences group, wherein are set forth the main phases of the influence of physical environment upon man and human society, with especial attention to the controlling conditions of trade. The several topics of this introductory course may be immediately followed out in other courses. A general course in Anthropology, in which an effort is made to familiarize the student with the general character of the evolutionary theory and its special application to man and society, leads up, in a natural sequence, to a course in the Science of Society. From each of these latter courses more special ones branch out, which take up Transportation Systems, Colonization, Natural History of Man, Ethnology, Culture-History, and so on. All the courses in this group are designed to rest upon an ultimate basis in natural science, and to furnish, in their various sequences, a progressively extended scientific knowledge of man ; this to be attained, in good part, through a study of the earlier and simpler forms of human society, and of social habitudes and institutions in their less complex terms.

XXV. ECONOMICS AND LAW. An elementary course in Economics is provided, which treats of the general principles of the science and of some of its more important practical applications in finance and legislation. Text-books are supplemented by lectures and discussions. Those who have taken Elementary Economics have an opportunity in Junior and Senior years to become acquainted with the history of the science and the controversies now going on in it, and to study more thoroughly special topics from different points of view, such as the historical and the statistical.

The courses in Law in Junior and Senior years are intended mainly for prospective students of Law as a profession, and deal with Elementary, Constitutional, and International Law, Contracts, Torts, and Evidence.

GENERAL STATEMENT OF THE COURSE OF STUDY  
AMOUNT OF WORK REQUIRED FOR GRADUATION, AND  
ENROLLMENT

A candidate for the degree of Bachelor of Arts must successfully complete courses aggregating sixty hours per week through a year—Freshmen ordinarily taking fifteen or sixteen hours per week (at least fifteen); Sophomores and Juniors, from fifteen to eighteen hours (at least fifteen); Seniors, at least twelve hours, and, if entering at the beginning of Senior year, at least fifteen. A student who is enrolled as a Freshman a second year may, if he desires, take eighteen hours per week; no student may take more than eighteen without special permission. Extra hours, in addition to the sixty ordinarily required for graduation, may be made necessary by absence, as specified in the College rules for attendance.

A student is enrolled in the Freshman class until he has completed at least eleven hours of work and has removed all entrance conditions (concerning which see the College rules); he is then enrolled in the Sophomore class until he has completed twenty-six hours; then in the Junior class until he has completed at least forty-one hours; then in the Senior class.

In no other way can a student retain or regain enrollment with his original class than by passing satisfactorily in the required number of hours of work. A course that has not been satisfactorily passed is not counted as part of the work for the degree, and the resulting deficiency can be made up only by taking in a later year, in addition to the amount of work otherwise required, a number of hours equal to that covered by the rejected course. (In general, a student may not repeat, in a later year, a course in which he has failed.) Upon satisfactory completion of the whole number of hours of work required to date, a student who has been separated from his class for deficiency of hours regains enrollment therein.

**ANTICIPATION OF COURSES**

This is a privilege open only to more capable students. It is restricted to those who have an average scholarship standing of C grade or higher on the work of the previous year, and who, furthermore, have no deficiency due to failure in a course taken in the previous year and are not required to take extra hours for absence. A student who desires to anticipate a course must make application in writing to the Dean before September 1, pay the Bursar the fee for a special examination, and present himself for examination at the time of the entrance examination in September. If the examination is satisfactorily passed, the student may take in place of the anticipated course an equal number of hours from the courses open to his own or the next higher class, if he is otherwise qualified to do so; and the anticipated course may, if a grade of C or higher is obtained therein, count as part of the sixty hours required for graduation. (Anticipation of Freshman courses is noticed on an earlier page.)

**COMPLETION OF THE COLLEGE COURSE IN THREE YEARS**

As eighteen hours of work may be taken in Sophomore year and again in Junior year, and one or more courses may be anticipated at the beginning of a year, it is possible for a good student to have completed the required sixty hours at the end of his third year. This completion of the course in three years is open only to those who have taken a high rank in Freshman year, and only by special vote of the Faculty in each case.

**GROUPING AND GRADING OF COURSES, AND FREE ELECTIVES****(1) GROUPING**

The individual courses are arranged in twenty-five numbered groups, in three main divisions, as follows :

(1) LANGUAGE, LITERATURE, AND THE ARTS : comprising (i) Latin ; (ii) Greek ; (iii) Classical Archæology ; (iv) Sanskrit, Linguistics, and Comparative Philology ; (v) Biblical Literature and Semitic Languages ; (vi) French ; (vii) Italian ; (viii) Spanish ; (ix) German ;

(x) Scandinavian ; (xi) Russian ; (xii) Japanese ; (xiii) English (including Rhetoric and Oral Expression) ; (xiv) The Fine Arts ; and (xv) Music.

(2) MATHEMATICS AND THE PHYSICAL AND NATURAL SCIENCES : comprising (xvi) Mathematics ; (xvii) Physics ; (xviii) Chemistry ; (xix) The Geological Sciences ; and (xx) The Biological Sciences.

(3) PHILOSOPHY, EDUCATION, HISTORY, AND THE SOCIAL SCIENCES : comprising (xxi) Philosophy ; (xxii) Theory and Practice of Education ; (xxiii) History ; (xxiv) Anthropology ; and (xxv) Economics and Law.

## (2) GRADING

Courses are, for the most part, definitely graded.† The grade to which a course belongs is indicated by a letter (A, B, C, or D) prefixed to the number of the course. Courses of A grade are elementary in character ; courses of B grade, intermediate ; courses of C grade, more or less advanced ; courses of D grade, distinctly advanced.

For specially qualified students work of D grade may be provided outside of the definitely announced and numbered courses, and such students may, under certain conditions, be relieved from the ordinary major and minor requirements. The conditions under which such special arrangements may be made are stated below, in the last paragraph under *Statement for the Class of 1911 and Later Classes*.

## (3) UNGRADED COURSES AND FREE ELECTIVES

Some courses are designated merely by a number, without a prefixed A, B, C, or D. Such courses are not graded, and they may not be taken as part of a major or a minor (defined below), but only as free electives, outside of the major and minors. The graded courses, also, may be thus chosen as free electives, to complete that portion of the sixty hours of work required for graduation which is not included in the major and minors. In both cases the student's freedom of choice is subject only

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† In a few cases courses count as of a higher or a lower grade according as they are or are not taken after certain other courses. In every such case a specific statement is made in connection with the printed announcement of the course.

to such restrictions as may be found in the statements of the individual courses.

## MAJORS AND MINORS

### *Statement for the Class of 1911 and Later Classes*

#### (1) DEFINITIONS

A *major* consists of a prescribed number of hours of connected,† graded work, including not more than one course of A grade and at least two hours of work of C or D grade; the prescribed number of hours is TWELVE, except in cases where no course in the contemplated major is open to election before Sophomore year, in which cases the prescribed number is NINE.

A *minor* consists of connected, graded work, aggregating FIVE hours *or more* (see next paragraph).

#### (2) ORDINARY REQUIREMENTS

Every student, except as provided in the next paragraph, must complete before graduation (1) both a major and a minor in some one of the three main divisions of courses (defined above) and (2) one minor in each of the other two main divisions. The three minors must aggregate at least eighteen hours of work, and the completion of them all by the end of Junior year must be provided for by the student at the time of making his choices for Sophomore year.

#### (3) SPECIAL CASES

A student whose scholarship during the two or three years preceding has been exceptionally high, and who desires to concentrate his work more than the above regu-

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† *Connected work* is to be understood as work comprised within the limits of a single, numbered group, *e. g.*, I. Latin, II. Greek. It is to be noted, however, that (1) courses in group III (Classical Archaeology) count as courses in Latin or in Greek; (2) Freshman Latin and Freshman Greek are to be considered the elementary [A] course for group IV (Sanskrit, Linguistics, and Comparative Philology); (3) Geological Sciences A 1 is to be considered the regular A course in group XXIV (Anthropology); and (4) in a few other, scattered cases courses in closely related subjects, though not in the same numbered group, may be treated as "connected" courses in meeting the requirements as to major and minors. In every such case there is an explicit statement in connection with the printed announcement of each individual course concerned.

lations allow, may, under certain conditions, be relieved from the ordinary major and minor requirements and have his work specially arranged for him, and may also be relieved of a part of the class-room attendance ordinarily required. The conditions under which such a special arrangement may be made are : (1) the liberty will be granted only at the time of making choices for Junior or for Senior year ; (2) the applicant's scholarship during the portion of his College course preceding the time of application must have been of distinctly high grade ; (3) the application in each case must be approved and recommended to the Faculty by the instructors in the group of studies in which the student proposes to concentrate his work ; and (4) a special vote of the Faculty is required in each case.

*Statement for the Classes of 1909 and 1910*

Members of the classes of 1909 and 1910 may complete their College course either under the new regulations stated above (if they are able and prefer to do so) or under the regulations previously in force, which differ from the new ones in the following particulars :

1 Two majors (each consisting of connected† courses of grades A, B, and C, aggregating at least seven hours) and three minors (each consisting of connected courses of grades A and B, aggregating at least five hours) must be taken by each student, and these must be so arranged that not more than two of these five units shall be in any one of the three main divisions of courses. (Work of B grade may count as of A grade, and work of C grade as of B grade.)

2. The three minors need not all be completed by the end of Junior year.

† The regulations previously in force allow all the special cases of "connected" courses which are allowed under the new regulations ; and, furthermore, they treat the science courses (groups XVII-XX) as a single group in this respect, so that under these regulations a major or minor may be made up of a combination of courses in different sciences, subject only to such restrictions as may be found in the statements of the individual courses.



3. All courses of D grade in the new list are to be treated as being of C grade under the old regulations ; and the following courses, which in the new list are not graded, are to be treated under the old regulations as being of the following grades :

GRADE A : Italian 3 ; Mathematics 3 and 5 ; Biological Sciences 3 and 29 ; Economics and Law 43, 51, 53, and 55.

GRADE B : Mathematics 13 ; Philosophy 7 ; Economics and Law 47, 49, 57, 59, and 61.

GRADE C : Mathematics 19 and 21 ; Biological Sciences 27 and 39 ; Economics and Law 45.

#### FRESHMAN YEAR

Every member of the Freshman class is required to take five of the three-hour courses listed below. Three of the five courses chosen must be in continuation of subjects offered for admission by the student concerned, and within the following limits: Latin, Greek, French, German, English, and Mathematics. The anticipation (explained under Terms of Admission) of a Freshman course that so continues a subject offered for admission is considered as meeting this requirement for that subject. The complete list of courses from which Freshmen may choose is as follows :

Latin—

*Livy, Tacitus, and Horace*, Course A 1.

Greek—

*Homer, Herodotus, and Plato*, Course A 1.

French†—[One course only may be chosen.]

*Elementary French*, Course A 1.

*Freshman Second-Year French*, Course A 3.

*Freshman Third-Year French*, Course A 5.

German†—[One course only may be chosen.]

*Elementary German*, Course A 1.

*Freshman Intermediate German*, Course A 3.

*Freshman Advanced German*, Course A 5.

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† A Freshman who has failed in the entrance examination in French (a) must, if he elects either language, take German, and *vice versa*. A Freshman who has passed the entrance examination in either language may either (1) continue the study of that language, or (2) begin the study of the other one in case he has not previously pursued it, or (3) continue the study of the one *and* begin the study of the other. Those who have sufficient knowledge of either language are assigned to classes further advanced.

## English—

*Freshman English*, Course A 1.

## Mathematics—

*Plane Trigonometry, Advanced Algebra, and Solid Geometry*, Course A 1, or *Analytical Geometry and Calculus*, Course B 7 (the latter for those who have anticipated Solid Geometry and Plane Trigonometry).

## Chemistry—

*Inorganic Chemistry*, Course A 1.

## History—

*European History*, Course A 1.

In addition to five of these three-hour courses, a Freshman may take the following one-hour course :

## English—

*Oral Expression*, Course A 1.

## GYMNASTICS

From November 1 until April 1 work in gymnastics is required of the members of the Freshman class, except those who are in regular training with the recognized athletic teams. This work may be either two periods a week in class-drill or four periods of individual exercise, at the option of the student.

## SOPHOMORE YEAR

Every prospective member of the Sophomore class is required to choose fifteen, and may choose eighteen, hours of Sophomore work, from the courses listed below. On the blank for Sophomore choices the student must indicate his plans for Junior and Senior years, providing for the completion of the required three minors by the end of Junior year and showing how he intends to meet the other requirements for graduation. The list of choices must be signed by the student's Freshman division-officer *before it is handed in*.

## Latin—

*Horace, Latin Comedy, etc.*, Course B 3.

## Greek—

*The Athenian Drama*, Course B 5.

## Biblical Literature—

*Biblical Literature and History*, Course A 1.

## French— [One course only may be chosen.]

*Elementary French*, Course A 1.*Second-Year French*, Course A 7.

*Sophomore Advanced French*, Course B 11a or B 11b.

Spanish—

*Elementary Spanish*, Course A 1.

German— [One course only may be chosen.]

*Elementary German*, Course A 1.

*Sophomore Second-Year German*, Course A 7.

*Sophomore Advanced German*, Course B 11a or B 11b.

English—

*Written Composition*, Course B 1, and *Sophomore English*, Course B 3 (to count together as a single three-hour course for Sophomores); or *Oral Composition*, Course B 3, and *Sophomore English*, Course B 3 (to count as five hours toward the sixty required for graduation, but only three hours will be counted among the fifteen required for Sophomore year); or *Oral Composition*, Course B3.

*Oral Expression*, Course A 3 (may not be taken as part of the required fifteen hours).

Mathematics—

*Analytical Geometry and Calculus*, Course B 9, or *Advanced Calculus*, Course C 17 (the latter open as a Sophomore course only to those who have taken B 7 in Freshman year).

Physics—

*Elementary Physics*, Course A 1, or *General Physics*, Course B 3. *Problems in Physics*, Course B 5 (may not be taken as part of the required fifteen hours).

*Elementary Laboratory Physics*, Course B 7 (may not be taken as part of the required fifteen hours).

Chemistry—

[One course only may be chosen as part of the required fifteen hours.]

*Inorganic Chemistry*, Course A 1.

*Qualitative Analysis*, Course B 3 } (for those who have taken  
*Organic Chemistry*, Course B 5 } A 1 in Freshman year).

Geological Sciences—

*Physical and Commercial Geography*, Course A 1.

*Mineralogy and Crystallography*, Course B 7 (may not be taken as part of the required fifteen hours).

Biological Sciences—

*Elementary Biology*, Course A 1.

*Physiology*, Course 29 (may not be taken as part of the required fifteen hours).

Philosophy—

[One course only may be chosen as part of the required fifteen hours.]

*History of Philosophy*, Course A b1 (may not be chosen with A b3).

*Logic and Elements of Philosophy*, Course A b3 (both parts, a and b).

*Psychology*, Course A b5.

History— [One course only may be chosen.]

*European History*, Course A 1.

*English Political History*, Course B 19 (for those who have taken A 1 in Freshman year).

Anthropology—

*Physical and Commercial Geography* (Geological Sciences A 1) and *Elementary Economics* (Economics and Law A 1) may count as A courses in Anthropology.

Economics and Law—

*Elementary Economics*, Course A 1.

#### PUBLIC SPEAKING

Private instruction in public speaking is given to members of the Sophomore class who are chosen to contest for the prizes in reading and speaking.

#### JUNIOR AND SENIOR YEARS

Every prospective member of the Junior class is required to select from the list of courses given in the following detailed statement not less than fifteen, nor more than eighteen, hours of class-room work per week for Junior year. The student's list of choices for Junior year must provide for the completion of the required three minors by the end of that year and must be signed by his Sophomore division-officer *before it is handed in*. See, however, the special statement for members of the classes of 1909 and 1910, in the latter part of the section on Majors and Minors, above.

A prospective member of the Senior class is required to select a number of hours per week which, in addition to those passed satisfactorily at the end of Junior year, will bring the total number of hours up to sixty; but no member of the Senior class may take less than twelve hours, and a student entering at the beginning of Senior year must take at least fifteen hours. For a special statement for members of the classes of 1909 and 1910, see the latter part of the section on Majors and Minors, above.

In making his final choices for Junior or for Senior

year a student is not bound by his previously expressed plans for meeting the requirements for graduation, provided that the final choices meet all requirements as to major(s), minors, and the number of hours of work. Any excess of hours above the sixty required for the degree of Bachelor of Arts may be devoted to courses in the professional schools.

#### PUBLIC SPEAKING

Private instruction in public speaking is given in preparation for the TenEyck prize speaking in Junior year and for the DeForest prize speaking in Senior year.

### DETAILED STATEMENT OF COURSES SPECIAL EXPLANATIONS

1. Courses included in brackets are omitted in 1908-09, but probably will be given in 1909-10.

2. An asterisk (\*) prefixed to the statement of a course indicates that written permission must be secured from the instructor in order to gain admission to the course.

3. The sequence of courses is, in general, indicated by division into grades A, B, C, and D. In some cases one course presupposes another, or must be taken in connection with another. Such restrictions, and restrictions to a particular class or to particular classes, are indicated in brackets after the title of the course, *e. g.*, Latin "B 3 *Horace, Latin Comedy, etc.* [after A 1]. [Sophomores, Juniors, and Seniors.]"

4. Courses not otherwise limited are open to Juniors and Seniors, and to them only.

5. The number of hours of class-room or laboratory work per week for each course and the number of hours per year for which the course counts (which numbers are sometimes identical, sometimes not) are explicitly indicated after the title (and limitations, if there be any) of the course, *e. g.*, Mathematics "3 *Descriptive Astronomy* [after A 1]. 3 hrs. first term, *to count as 1 hr. for the year.*" Unless otherwise indicated, the number of hours per week is identical with the number per year.

## THE COURSES

(1) LANGUAGE, LITERATURE, AND THE ARTS  
ANCIENT LANGUAGES, CLASSICAL ARCHÆOLOGY, LIN-  
GUISTICS, AND BIBLICAL LITERATURE (GROUPS I-V)

## I. LATIN

Course A 1 is designed especially for Freshmen ; B 3 is primarily for Sophomores.

Students who wish to continue the study of Latin literature after Freshman year as part of a liberal education should take B 3 in Sophomore year. B 5, C 7, C 9, and C 11 are designed especially to meet the needs of such students in Junior and Senior years.

C 15, D 17, and D 19 are intended for students who propose to specialize in Latin with a view to teaching. C 13 is of a more special character.

Work of D grade, not in regular courses, will be provided for specially qualified students under the conditions named in the general statement of the course of study ; students who wish to take such work should consult Professor Morris.

A few Seniors who have done superior work in Latin may, with the consent of the instructor and the approval of the Latin Professors, be received into the following graduate courses and count them as D courses in Latin : *Latin Syntax* (Professor MORRIS) ; *Early Latin* (Professor OERTEL) ; and *Text-Criticism* and *Latin Literature of the Late Middle Ages* (Assistant Professor C. U. CLARK). These courses are described in the pamphlet of the Graduate School.

A 1 is prerequisite to B 3 and B 5 ; and B 3 (or one of the Sophomore courses given in 1906-07 or in 1907-08) is prerequisite to all the other courses. The requirements for a major may be met in Latin by taking in the proper order A 1, B 3, and other courses aggregating six hours. A student who wishes to confine his major to study of the literature will take A 1, B 3, and six hours from B 5, C 7, C 9, and C 11. A 1 and B 3 constitute a minor in Latin ;

to which may be joined one of the other courses by those who wish to take a minor of more than six hours.

It is to be noted, with regard to the requirements as to major(s) and minors, that Classical Archæology B 7 (*Roman and Etruscan Art*) counts as a B course in Latin. For *Phonetics*, *Comparative Syntax*, and *Linguistics*, see Sanskrit, etc. B 3, C 5, and C 7. For *Outline Survey of Ancient History*, see History B 5. For *History of the Roman Republic*, see History B 9.

A 1 *Livy, Tacitus, and Horace.* [Freshmen.] 3 hrs.  
Professor MORRIS, Assistant Professors INGERSOLL, C. U.  
CLARK, and H. B. WRIGHT, and Mr. MENDELL.

Livy, Books i and ii or selections; the *Agricola* and *Germania* of Tacitus; the *Satires* of Horace.

B 3 *Horace, Latin Comedy, and Cicero or Catullus* [after A 1]. [Sophomores, Juniors, and Seniors.] 3 hrs.  
Professors MORRIS and HENDRICKSON and Assistant Professor INGERSOLL.

The *Odes* and *Epodes* of Horace; selected plays of Plautus and Terence; and either the *De Amicitia* and *De Senectute* of Cicero or the poems of Catullus.

B 5 *Juvenal, Martial, and Pliny's Letters* [after A 1]. 2 hrs.  
Professor H. P. WRIGHT and Assistant Professor H. B. WRIGHT.

Roman private life; literary and social conditions in Rome in the early empire.

C 7 *Horace and Lucretius* [after Sophomore Latin]. 2 hrs.  
Professor HENDRICKSON.

Horace's *Epistles* and *The Art of Poetry*; Lucretius, Books i, iii, and v.

[C 9 *A Course to Alternate with C 7* [after Sophomore Latin]. 2 hrs.

Professor HENDRICKSON.

Subject to be announced in 1909.

Omitted in 1908-09.]

C 11 *Latin Literature* [after Sophomore Latin]. 2 hrs.  
Assistant Professor INGERSOLL.

A general survey of the whole field. Lectures, illustrative readings, and direction of the student's private reading.

[C 13 *Roman Law* [after Sophomore Latin]. 2 hrs.  
Assistant Professor INGERSOLL.

An elementary and general course, for the classical student or the student of law.

Omitted in 1908-09.]

C 15 *Latin Composition* [after Sophomore Latin]. 2 hrs.  
Assistant Professor C. U. CLARK.

A course leading up to D 19, but thorough enough to serve as final for men who plan to teach immediately after graduating.

[\*D 17 *Vergil* [after Sophomore Latin]. 2 hrs.  
Professor MORRIS.

An introduction to Vergil, for students who expect to teach Latin. Practice in the use of the best editions and of other critical and exegetical helps.

Omitted in 1908-09.]

\*D 19 *Advanced Latin Prose Writing* [after C 15]. 2 hrs.  
Professor OERTEL.

A study of Cicero's *Lalius* from the stylistic point of view; exercises in translation and free composition. Designed especially for those who expect to teach Latin.

## II. GREEK

It is to be noted, with regard to the requirements as to major(s) and minors, that Classical Archæology B 1 (*Greek Art, I*), B 3 (*Greek Art, II*), B 5 (*Greek Architecture*), and C 9 (*Topography and Monuments of Athens*) count as B and C courses in Greek. For *Phonetics, Comparative Syntax*, and *Linguistics*, see Sanskrit, etc. B 3, C 5, and C 7. For *New Testament Greek*, see Biblical Literature and Semitic Languages B 15. For *Greek Philosophy*, see also Philosophy C 21 and D 35. For *Outline Survey of Ancient History*, see History B 5. For *History of Greece*, see History B 7.

A 1 *Homer, Herodotus, and Plato*. [Freshmen.] 3 hrs.  
Professor GOODELL, Dr. W. H. THOMPSON, and Dr. REES.

Selections from Homer's *Odyssey*, Books xiii-xxiv, in the Greek, and Books i-xii in the English of Palmer; selections



from all the books of Herodotus ; Plato's *Apology* and *Crito*, and parts of the *Phædo*.

**B 5** *The Athenian Drama* [after A 1].

[Sophomores, Juniors, and Seniors.] 3 hrs.

Professor REYNOLDS, Dr. W. H. THOMPSON, and Dr. REES.

Reading of representative plays of Æschylus, Sophocles, Euripides, and Aristophanes; lectures on the Greek theater and on the Attic drama and its relations to earlier and later literature.

**B 7** *Lucian and Greek Romance-Writers* [after B 5]. 2 hrs.

Professor REYNOLDS.

(a) Lucian's *Dream*, *Charon*, *Timon*, and other minor dialogues, with a study of Greek culture under Marcus Aurelius.

(b) Lucian's *True History*, parts of Xenophon's *Cyropædia*, and an introductory survey of the precursors of the modern novel and romance.

[**B 9** *Homer* [after B 5].

2 hrs.

Professor REYNOLDS.

Reading of the entire *Iliad*. This course is intended for the general student of literature.

Omitted in 1908-09.]

[\***C 11** *Æschylus and Pindar* [after B 5].

3 hrs.

Professor PERRIN.

The *Persians* and the *Seven against Thebes* of Æschylus, with special attention to the historical element of the first and the dramatic structure of both; the principal extant *Odes* of Pindar, with comparison of the poems of Bacchylides.

Omitted in 1908-09.]

\***C 13** *Plato* [after B 5].

3 hrs.

Professor GOODELL.

The *Protagoras*, *Gorgias*, and *Phædo*; introduction to Plato's philosophy, and study of his literary methods and style.

[\***C 15** *Æschylus and Sophocles* [after B 5].

3 hrs.

Professor GOODELL.

The *Agamemnon*, *Choëphoroi*, and *Eumenides* of Æschylus; the *Aias*, *Œdipus Coloneus*, and *Electra* of Sophocles; with special attention to dramatic structure and to lyric meters.

Omitted in 1908-09.]

\***C 17** *Euripides and Theocritus* [after B 5].

2 hrs.

## Professor REYNOLDS.

Three plays of Euripides and the chief *Idylls* of Theocritus.

[\*C 19 *Plato and Aristotle* [after B 5]. 2 hrs.

## Professor REYNOLDS.

The *Poetics* of Aristotle, and selections from Plato (the *Republic* and other dialogues) bearing on poetry.

Omitted in 1908-09.]

\*C 21 *Greek Composition* [after B 5 and with another course in Greek]. 1 hr.

## Dr. W. H. THOMPSON.

Intended for those who expect to teach.

[\*D 23 *Greek Composition* [with another course in Greek]. 1 hr.

## Professor GOODELL.

Intended for graduate students and specially qualified Seniors and Juniors.

Omitted in 1908-09.]

## III. CLASSICAL ARCHÆOLOGY

In this group all the courses offered for 1908-09 are confined to the first two-thirds of the year, ending in March.

B 1 *Greek Art, I: Sculpture* [after Greek A 1, and counted as a B course in Greek]. 3 hrs. from September to March, *to count as 2 hrs. for the year.*

## Assistant Professor BAUR.

Lectures and quizzes by the instructor; special study of the literary sources by the students; occasional reports from members of the class.

[B 3 *Greek Art, II: The Lesser Arts* [after Greek A 1, and counted as a B course in Greek]. 2 hrs.

## Assistant Professor BAUR.

This course treats briefly of Greek painting, ceramics, terracottas, bronzes and other metal work, coins, and gems.

Omitted in 1908-09.]

B 5 *Greek Architecture* [after Greek A 1, and counted as a B course in Greek]. 3 hrs. from September to March, *to count as 2 hrs. for the year.*

## Assistant Professor BAUR.

The various forms of building-construction are successively examined in informal lectures, supplemented by occasional reports from members of the class.

- B 7 *Roman and Etruscan Art* [after Latin A 1, and counted as a B course in Latin]. 3 hrs. from September to March, *to count as 2 hrs. for the year.*

Assistant Professor BAUR.

This course includes such subjects as Roman architecture, Græco-Roman sculpture, topography and monuments of Rome and of Pompeii, and the domestic arts. Selected topics are investigated by the members of the class.

- [\*C 9 *Topography and Monuments of Athens* [after Greek A 1, and counted as a C course in Greek]. 2 hrs.

Assistant Professor BAUR.

A combination of the historical and the strictly topographical methods of treatment is adopted.

Omitted in 1908-09.]

#### IV. SANSKRIT, LINGUISTICS, AND COMPARATIVE PHILOLOGY

Freshman Latin and Freshman Greek are to be considered the elementary [A] course for this group.

- B 1 *Elementary Sanskrit* [after Latin A 1 and Greek A 1]. 2 hrs.

Professor HOPKINS.

Instruction in Sanskrit, beginning with Whitney's *Sanskrit Grammar* and passing on to Lanman's *Reader*. Especially recommended to Seniors who plan to take graduate work in classical philology.

- \*B 3 *Phonetics* [after Latin A 1 and Greek A 1]. 1 hr.

Professor OERTEL.

A general and rather elementary introduction to phonetics, based on a study of the English, French, and German sound-systems. Intended mainly for those who expect to teach.

- \*C 5 *Introduction to Comparative Syntax* [after Latin A 1 and Greek A 1]. 1 hr.

Professor HOPKINS.

For this course a knowledge of Sanskrit is desirable, but not necessary; it may be taken by any classical student.

\*C 7 *Linguistics* [after Latin A 1 and Greek A 1]. 2 hrs.  
Professor OERTEL.

An introduction to the scientific study of linguistic development.

#### V. BIBLICAL LITERATURE AND SEMITIC LANGUAGES

Courses A 1, B 3, B 5, C 17, and C 19 are offered primarily for general students of history and literature. A 1 and B 3 together aim to give a complete constructive survey of Biblical and cognate literature, history, and thought, as an introduction to this and related departments of study. B 7, B 9, B 13, and B 15 are intended especially for those who desire to anticipate the work of the first year in the Divinity School. Such men must have completed at the time of graduation at least eight of the fifteen hours required of Junior Theological students.

For *Philosophy of Religion*, see Philosophy C 31.

A 1 *Biblical Literature and History.*

[Sophomores, Juniors, and Seniors.] 3 hrs.

Professor KENT.

A general course, intended for students who wish to gain a definite, systematic knowledge of the literature, history, and teachings of the Bible on the basis of the best English translations.

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B 3 *Historical Origin of Christianity.*

2 hrs.

Professor KENT.

Study of the origin, history, and characteristics of Judaism; of political and religious conditions in the Græco-Roman world; and of the life, teachings, and work of the Founder of Christianity. Lectures and assigned reading.

B 5 *Life and Literature of the Apostolic Age.*

2 hrs.

Mr. CLAPP.

A study of the primitive church in Palestine, the early contact of Christianity with the heathen world, and the development of Apostolic teaching. Lectures and assigned reading.

B 7 *Elementary Hebrew.*

3 hrs.

Professor CURTIS.

A study of the elements of the Hebrew language in connec-

tion with the reading of *Genesis*, i-viii, and of selected passages of easy Hebrew.

**B 9** *Advanced Hebrew.* 2 hrs.

Professor CURTIS.

Reading of selected passages of Hebrew prose and poetry and a thorough review of the elements of Hebrew grammar and syntax, followed by practice in rapid sight-reading.

**B 11** *Elementary Arabic.* 2 hrs.

Professor TORREY.

The elements of Arabic grammar, including exercises in writing; rapid reading of easy prose extracts. Text-books: Socin's *Arabic Grammar* (2d ed.) and Brünnow's *Chrestomathy*.

**B 13** *Pauline Epistles and Synoptic Gospels.* 3 hrs.

Professor BACON.

First term: critical interpretation of *Galatians*, with comparison of the other major epistles. Second term: similar study of *Mark*, with comparison of *Matthew* and *Luke*.

**B 15** *New Testament Greek.* 2 hrs., to count as 1 hr.

Mr. CLAPP.

A course of rapid reading in the *Gospels* and the *Epistles*. Two hours of class-room work to be credited as one hour.

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**\*C 17** *Biblical Seminary* [after A 1]. 2 hrs.

Professor KENT.

A course intended to train students for patient, accurate, and independent investigation of Biblical and cognate questions. Subject for 1908-09: The character, work, writings, and teachings of the post-exilic prophets and psalmists.

**C 19** *Principles and Methods of Biblical Study* [after A 1]. 2 hrs.

Professor KENT and Mr. CLAPP.

Investigation of the problems and existing methods of religious instruction; study of psychological principles and of the Biblical material, with a view to their practical use in religious education; outlining of definite courses of study.

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**\*D 21** *Hebrew Seminary.* 2 hrs.

Professor KENT.

A knowledge of Hebrew, Hellenistic Greek, Latin, and German is required. Subject for 1908-09: The syntactical and textual problems of the *Psalter*, and the critical translation of important *Psalms*.

MODERN LANGUAGES AND LITERATURES (GROUPS VI-XIII)  
ROMANCE LANGUAGES

French A 1 is for beginners in all classes. A 3, A 7, and A 9 are for students who have the minimum French training. A 5 is for Freshmen who have passed entrance French (*b*). Those who choose A 9 may not, during the same year, take any other course in French; but the courses in Italian and Spanish are open to them.

All the other courses are of general interest and open to both Juniors and Seniors. The selection in each individual case should depend, next to the student's wish, on the relative amount and success of previous training. In the statement of each course the qualifications required are indicated; but consultation with the instructors is strongly advised, when not definitely required.

For *Phonetics*, *Comparative Syntax*, and *Linguistics*, see Sanskrit, etc. B 3, C 5, and C 7. For *Dante in English* and *Medieval Allegory*, see English C 33 and C 35.

VI. FRENCH

A 1 *Elementary French*. [All classes.] 3 hrs.  
Professor WARREN and Mr. HILL.

Careful study of the main facts of French grammar, with practice in pronunciation; reading of easy French prose.

A 3 *Freshman Second-Year French*. [Freshmen.] 3 hrs.  
Professor WARREN, Assistant Professor CURDY, and Mr. HILL.

See the statement of course A 7, with which this course is identical in subject-matter.

A 5 *Freshman Third-Year French*. [Freshmen.] 3 hrs.  
Dr. LECOMPTE.

See the statement of course B 11*b*, with which this course is identical in subject-matter.

A 7 *Second-Year French*.  
[Sophomores, Juniors, and Seniors.] 3 hrs.  
Assistant Professor CURDY.

Reading from standard French authors; a short course in French syntax, with exercises in composition and oral practice; a rapid survey of the history of French literature.

A 9 *Junior and Senior Second-Year French* [after A 1].

3 hrs.

Assistant Professor MCKENZIE.

Reading from French authors, mainly of the nineteenth century.

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B 11 *Sophomore Advanced French* [either *a* or *b* may be taken, but *not both*]. [Sophomores.] 3 hrs.*a French Masterpieces* [after A 5, passed with credit].

Assistant Professor SANDERSON.

Masterpieces of the last three centuries; reading of French prose and verse without translating; composition. *Conducted in French.*

*b French Prose and Poetry* [after A 3, passed with credit].

Assistant Professor SANDERSON and Dr. Lecompte.

Prose and poetry of the last three centuries; reading without translating; composition. Division II is *conducted in French.*

B 13 *French Comedy* [after A 3, A 7, or A 9, passed with credit]. 2 hrs.

Assistant Professor MCKENZIE.

Reading of representative French comedies of the last three centuries, with lectures on the development of the drama in France.

B 15 *French Literature of the Nineteenth Century* [after B 11]. 2 hrs.

Assistant Professor SANDERSON.

A study of the great writers of the nineteenth century, and of their principal works.

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[\*C 17 *French Literature of the Seventeenth Century.* 2 hrs.

Assistant Professor SANDERSON.

A study of the great writers of the seventeenth century, and of their principal works.

Omitted in 1908-09.]

\*C 19 *French Literature of the Eighteenth Century.* 2 hrs.

Assistant Professor SANDERSON.

A study of the great writers of the eighteenth century, and of their principal works.

\*C 21 *Practice in Writing and Speaking French.* 2 hrs.

Assistant Professor SANDERSON.

This course, *conducted entirely in French*, is specially intended for graduates or undergraduates who read French with ease and understand it when they hear it spoken.

## VII. ITALIAN

A 1 *Elementary Italian.* 3 hrs.

Assistant Professor MCKENZIE.

Stress is laid on good pronunciation and on mastery of the grammar. Grandgent's *Italian Grammar*; reading of modern authors.

3† *Italian Literature.* 1 hr.

Assistant Professor MCKENZIE.

Lectures on Italian literature, with collateral reading. A knowledge of Italian is not required.

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B 5 *Dante* [after A 1]. 3 hrs.

Assistant Professor MCKENZIE.

Literary study of Dante's works, particularly the *Vita Nuova* and *Divina Commedia*.

[\*C 7 *Petrarch and Boccaccio.* 2 hrs.

Assistant Professor MCKENZIE.

The works of Petrarch and Boccaccio and their predecessors and contemporaries. This course is primarily for graduates, but is open also to properly qualified undergraduates.

Omitted in 1908-09.]

## VIII. SPANISH

A 1 *Elementary Spanish.*

[Sophomores, Juniors, and Seniors.] 3 hrs.

Professor LANG and Assistant Professor SCHEVILL.

Stress is laid on good pronunciation and on mastery of the grammar. The chief aim of the instruction is to develop the ability to read the language readily and accurately.

B 3 *Composition in Spanish* [after A 1]. 2 hrs.

Assistant Professor SCHEVILL.

Chiefly for those who require the use of Spanish for practical purposes. The writing of letters, the reading of commercial papers, and fluency in translating and speaking receive special attention.

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† May count as of A grade for the classes of 1909 and 1910.



- B 5 *Spanish Prose of the Nineteenth Century* [after A 1].  
3 hrs.

Professor LANG.

Rapid reading of selections from the best modern Spanish writers in fiction, literary criticism, history, and related subjects. Private reading, outside of that covered by the class-room exercises, is required.

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- \*C 7 *Spanish Prose of the Sixteenth and Seventeenth Centuries* [after two years of Spanish]. 2 hrs.

Professor LANG.

*Lazarillo de Tormes*, Cervantes's *Don Quijote*, and some of the *Novelas Ejemplares* are read in class, and collateral reading in modern Spanish prose, dealing chiefly with the subject of this course, is required.

- [\*C 9 *The Spanish Drama of the Sixteenth and Seventeenth Centuries* [after two years of Spanish]. 2 hrs.

Assistant Professor SCHEVILL.

Reading in class of selected plays by Lope de Vega, Tirso de Molina, Calderón, etc. ; reports on assigned work ; lectures.

Omitted in 1908-09.]

- [\*C 11 *General View of Spanish Literature* [after two years of Spanish]. 2 hrs.

Professor LANG.

The aim of this course is to acquaint the student with the literary movements and productions of Castile. In addition to the work done in the class-room, outside reading and theses on special subjects are required.

Omitted in 1908-09.]

#### GERMANIC LANGUAGES

Juniors and Seniors who have had but one year of German, and wish to continue its study, should choose German A 9, which is open to Juniors and Seniors *only*.

Juniors and Seniors who have had but two years of German, and wish to continue its study, should choose among German B 13, B 17, and B 19 ; but B 15 also is open to them. German B 13, B 17, and B 19 are intended to be parallel courses, differing in subject-matter and vocabulary, and

choice between them should be made according to one's interest in this or that subject-matter and vocabulary.

Juniors and Seniors who have already had three years of German should choose among German B 15, C 21, C 23, and C 25 ; but B 13, B 17, and B 19 also are open to them.

Concerning the courses in Scandinavian Professor Palmer may be consulted.

For *Phonetics*, *Comparative Syntax*, and *Linguistics*, see Sanskrit, etc. B 3, C 5, and C 7.

#### IX. GERMAN

##### A 1 *Elementary German.*

[Freshmen and Sophomores.] 3 hrs.

Assistant Professor FARR, Dr. GUBELMANN, and Dr. BAKER.

Grammar ; translation of simple narrative prose from German into English ; elementary exercises in translating into German ; practice in pronunciation.

##### A 3 *Freshman Intermediate German.* [Freshmen.] 3 hrs.

Professor GRUENER, Assistant Professor FARR, Dr. GUBELMANN, and Dr. VESTLING.

See the statement of course A 9, with which this course is identical in subject-matter.

##### A 5 *Freshman Advanced German.* [Freshmen.] 3 hrs.

Professor GRUENER and Dr. BAKER.

See the statement of course B 11*b*, with which this course is identical in subject-matter.

##### A 7 *Sophomore Second-Year German.* [Sophomores.] 3 hrs.

Dr. VESTLING.

See the statement of course A 9, with which this course is identical in subject-matter.

##### A 9 *Junior and Senior Second-Year German* [after A 1 or its equivalent]. 3 hrs.

Dr. VESTLING.

Reading of short stories and of selections from more difficult prose and poetry ; practice in writing German ; study of word-formation.

##### B 11 *Sophomore Advanced German* [either *a* or *b* may be taken, but *not both*]. [Sophomores.] 3 hrs.

*a* *German Drama* [after A 3 or its equivalent].

Professor PALMER and Dr. GUBELMANN.

Rapid reading of dramas of the eighteenth and nineteenth centuries

*b Prose of Modern Historians and Critics* [after A 3 or its equivalent].

Dr. BAKER.

Rapid reading of selections from history, political writings, and literary criticism ; weekly exercises in German composition. The object of the course is to acquaint the student particularly with the historical and critical vocabularies and styles.

B 13 *Prose of Modern Historians and Critics* [after two years of German]. 2 hrs.

Dr. BAKER.

See the statement of course B 11*b*, with which this course is identical in subject-matter, except for the omission of the weekly exercises in composition.

\*B 15 *German Composition and Conversation*. 3 hrs.

Assistant Professor FARR.

For practice in speaking and writing. This course, *conducted in German*, is specially intended for those who look forward to teaching German.

B 17 *The Drama of Schiller and his Contemporaries* [after two years of German, and *not* after B 11*a*]. 2 hrs.

Professor GRUENER.

Rapid reading and literary study of Lessing's *Nathan der Weise*, Goethe's *Götz von Berlichingen* and *Iphigenie auf Tauris*, and Schiller's *Wallensteins Tod*.

B 19 *German Literature of the Nineteenth Century* [after two years of German]. 2 hrs.

Assistant Professor FARR.

A survey of German literature after the death of Goethe. Representative works of the best known authors are read, and occasional lectures are given to show the development of German literature during the nineteenth century.

C 21 *Goethe : Works and Life* [after a B course or its equivalent]. 3 hrs.

Professor PALMER.

Outline study of Goethe's life and development in connection with his lyric poems, early prose writings, and principal dramas; reading and discussion of *Faust* (both parts), the later prose

works, and Goethe's important utterances in letters, journals, and conversations.

- C 23 *History of German Literature, 1624-1832* [after a B course or its equivalent]. 2 hrs.

Professor PALMER.

The development of German literature from the time of Opitz to Goethe's death.

- \*C 25 *German Epic, Ballad, and Lyric Poetry.* 2 hrs.

Professor GRUENER.

This course, *conducted in German*, covers German poetry from the Middle Ages to the present time.

#### X. SCANDINAVIAN

- 1 *Norwegian and Danish* [after one year of German]. 2 hrs.

Professor PALMER.

The object of this course is to lay the foundation for a reading and practical knowledge of the language. Study of the grammar and reading of selections from the writings of modern authors.

- 3 *Swedish* [after one year of German]. 2 hrs.

Dr. THORSTENBERG.

A course in Swedish similar to course 1 in Norwegian and Danish.

#### XI. RUSSIAN

- 1 *Elementary Russian.* 3 hrs.

Mr. MANDELL.

Grammar and pronunciation ; exercises in translating conversational sentences ; reading of selected stories ; oral and written composition.

#### XII. JAPANESE

- 1 *Elementary Japanese.* 2 hrs.

Dr. ASAKAWA.

The essential rules of the grammar of the written and spoken Japanese language, with practical exercises in elementary characters.

- 3 *Modern Practical Japanese* [after 1 or with the consent of the instructor]. 2 hrs.

Dr. ASAKAWA.

Exercises in the business, official, and journalistic styles of writing at the present time.

## XIII. ENGLISH

In this group are included courses in Rhetoric, in Oral Expression, and in English Literature.

For *Phonetics*, *Comparative Syntax*, and *Linguistics*, see Sanskrit, etc. B 3, C 5, and C 7.

## COURSES IN RHETORIC

Every student who elects English B 3 is required to take also one hour of rhetoric. If a student wishes no more than one hour of rhetoric, or prefers practice exclusively in writing, he elects Rhetoric B 1. If he wishes, in addition to the one hour required with English B 3, two hours of rhetoric for study and practice in public speaking, he may, by written permission of the instructor, elect Rhetoric B 3 *instead of* B 1. In this case the two additional hours of rhetoric, though they count toward the total of sixty hours required for graduation, do not count toward the fifteen hours required for Sophomore year; *i. e.*, a Sophomore who elects Rhetoric B 3 with English B 3 must carry a total of seventeen hours. (It is to be noted, however, that Rhetoric B 3 may be elected without English B 3.) No student is admitted to both Rhetoric B 1 and Rhetoric B 3.

B 1 *Written Composition* [with English B 3, but *not* with Rhetoric B 3]. [Sophomores.] 1 hr.

Assistant Professor BERDAN, Dr. E. N. S. THOMPSON, Mr. HOOKER, and Mr. ANDREWS.

General training in composition and expression; recitations for discussion of principles and methods, and for the study of models; fortnightly themes, mainly in essay-writing and description, with regular appointments for the criticism of each.

\*B 3 *Oral Composition (Public Speaking)* [*not* with Rhetoric B 1]. [Sophomores.] 3 hrs.

Assistant Professor C. S. BALDWIN and Dr. E. N. S. THOMPSON.

First term: preparatory training in the general principles of composition. Second term: study of the principles and practice of oratory.

**\*B 5 Verse Composition.**

1 hr.

Mr. HOOKER.

Regular practice in standard verse-forms, with individual appointments for consultation and criticism.

**B 7 Daily Themes** [after B 1 or B 3]. 3 hrs. 1st term,  
*to count as 1 hr. for the year.*

Assistant Professor C. S. BALDWIN.

A course in personal expression, aiming at fluency in focusing daily impressions.

**\*B 9 Story-Writing** [after B 1 or B 3]. 3 hrs. 2d term,  
*to count as 2 hrs. for the year.*

Mr. HOOKER.

A course in the planning and writing of stories. Lectures, recitations, class exercises, and regular appointments for criticism.

**B 11 Debating** [after B 1 or B 3†]. [Juniors, and Seniors who are graduates of other colleges.] 2 hrs.

Assistant Professor C. S. BALDWIN.

First term: practice mainly in rebuttal and in individual speeches; briefs both for class debates and for analysis of selected models of debating. Second term: further practice in rebuttal; the construction of a case; research, brief-drawing, and coherent presentation.

[**B 13 Essay-Writing** [after B 1 or B 3]. 3 hrs. 2d term,  
*to count as 2 hrs. for the year.*

Assistant Professor BERDAN.

Analysis of modern essays for the technique of practical prose; practice in composition, with regular appointments for criticism.

Omitted in 1908-09.]

[**C 15 Literary Forms** [after B 7, B 9, B 11, or B 13].  
[Seniors.] 3 hrs. 2d term, *to count as 2 hrs. for the year.*

Assistant Professor C. S. BALDWIN.

A review of English literature by its principal forms: lectures and class discussions on assigned reading; six extended essays in criticism.

Omitted in 1908-09.]

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† Seniors who are graduates of other colleges are admitted without having taken either B 1 or B 3.

- \*C 17 *The Teaching of English (with special reference to Composition)* [after B 7, B 9, B 11, or B 13]. [Seniors.]  
3 hrs. 1st term, to count as 1 hr. for the year.

Assistant Professor C. S. BALDWIN.

A practical course for teachers : (1) division of the subject into literature and composition ; (2) the theory of rhetoric ; (3) methods of presentation, with especial reference to preparation for college ; (4) theme-reading.

#### COURSES IN ORAL EXPRESSION

- \*A 1 *Oral Expression*. [Freshmen.†] 1 hr.

Assistant Professor WETZEL.

Especial attention is given to vocal training. The student is expected to acquire a correct and refined pronunciation of English and a distinct and natural utterance.

- \*A 3 *Oral Expression* [after A 1]. [Sophomores.†] 1 hr.

Assistant Professor WETZEL.

This course includes a study of the history of oratory and systematic practice in delivery, with special reference to emphasis, inflection, movement, tone-color, change of pitch, cadence, and gestural expression.

- \*A 5 *Oral Expression* [after A 3]. [Juniors.] 1 hr.

Assistant Professor WETZEL.

This course includes systematic practice in forensic speaking and in the vocal interpretation of Shakespeare, with special reference to argumentative and dramatic interpretation.

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† May be taken only outside of the required fifteen hours.

## COURSES IN ENGLISH LITERATURE

A 1 *Freshman English*. [Freshmen.] 3 hrs.

Assistant Professor TINKER, Mr. MASON, Mr. McCUNE,  
and Mr. R. P. WALKER.

A careful study of a few important books, chiefly modern, having as its aim the development of an intelligent appreciation of the best poetry and prose. Among the authors studied are Shakespeare, Carlyle, Arnold, and Tennyson.

B 3 *Sophomore English* [with Rhetoric B 1 or B 3].  
[Sophomores, § Juniors, and Seniors.] 2 hrs.

Assistant Professor REED and Dr. HEMINGWAY.

A careful study of a few earlier writers, preparatory to more advanced courses in special periods and topics. Among the authors read are Chaucer, Spenser, Shakespeare, Milton, Swift, and Pope.

B 5 *Chaucer, Burns, and the English and Scottish Ballads*.  
2 hrs.

Professor BEERS.

Selections from the *Canterbury Tales*, from the old minstrel ballads, and from the poems in dialect of Robert Burns.

B 7 *Shakespeare*. [Seniors.] 1 hr.

Professor LEWIS.

A rapid reading of thirty plays. Lectures, with written recitations at each exercise.

B 9 *Elizabethan Drama*. 2 hrs.

Professor PHELPS.

The English drama, from the mystery plays to the closing of the theaters in 1642, studied from both the literary and the dramatic point of view.

B 11 *Aspects of the Drama*. 2 hrs.

Professor BEERS.

An examination of some twenty-five plays illustrating types and classes of English drama. Instruction half by lectures and half by recitations.

[\*B 13. *The Development of the English Novel*. 2 hrs.

Assistant Professor REED.

§ See the statement preceding the announcement of Rhetoric.



The development of prose fiction from Malory to Anthony Trollope. Lectures, brief papers, and conferences.

Omitted in 1908-09.]

B 15 *English Literature of the Eighteenth Century.* 2 hrs.  
Assistant Professor TINKER.

(1) Dr. Johnson and his circle ; (2) the development of fiction ; (3) the history of poetry from the death of Pope to 1800.

[B 17 *American Literature.* 1 hr.  
Professor PHELPS.

A course of lectures on leading American authors of the past hundred years. A large amount of reading is required ; also a weekly one-page critical theme from each member of the class.

Omitted in 1908-09.]

B 19 *English Poets of the Nineteenth Century.*

[Juniors, and Seniors who have entered at the beginning of the Senior year.] 2 hrs.

Professor LEWIS.

Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Rossetti, Morris, Swinburne, Arnold, Clough, and a few others. Lectures, with written tests.

B 21 *New England Writers.* 2 hrs.  
Professor BEERS.

A study of the literature of New England from 1830 to 1870, with special reference to the contemporary movement in society, politics, and religion.

B 23 *Tennyson and Browning.* 2 hrs.  
Professor PHELPS.

The study of Tennyson as poet and artist, and of Browning as an interpreter of life. Recitations and discussions.

[B 25 *English Literary Drama of the Nineteenth Century.* 1 hr.

A study of the most important literary plays of the century ; their success on the stage or in the field of mere literature ; their relation to other contemporary literature.

Omitted in 1908-09.]

[B 27 *English Prose of the Nineteenth Century.* 2 hrs.

A study of the most important prose of the century, exclud-

ing fiction. Extensive reading, supplemented by biographical and critical lectures.

Omitted in 1908-09.]

[B 29 *Recent Literature* [with or after B 19 or B 27]. 2 hrs.

A study of the main tendencies of the last twenty-five years in the chief departments of literature.

Omitted in 1908-09.]

\*C 31 *Old and Middle English.* 2 hrs., to count as 3 hrs.

Professor COOK.

An elementary course in the beginnings and earlier development of the English language and literature.

\*C 33 *Dante in English.* [Seniors.] 1 hr., to count as 2 hrs.

Professor COOK.

A course primarily in the *Divina Commedia* and the *Vita Nuova*. Much attention is bestowed upon the historical and literary background of the poet and his works.

\*C 35 *Medieval Allegory.* 2 hrs.

Professor BEERS.

The *Purgatory* of Dante, the *Romaunt of the Rose*, and a portion of *Piers Plowman* are read in class, with other texts illustrative of the subject.

[\*C 37 *Early Narrative.* 1 hr.

Assistant Professor TINKER.

Famous legends and the various narrative forms which they have assumed, such as ballad, tale, saga, epic, and romance. The influence of these forms upon Percy, Scott, Rossetti, and Morris.

Omitted in 1908-09.]

\*C 39 *English Lyrical Poetry.* [Seniors.] 2 hrs.

Assistant Professor REED.

A lecture course, with brief papers on assigned reading, on the origin of the English lyric and its development from Skelton to the present day.

\*C 41 *English Literature of the Sixteenth Century.* 2 hrs.

Assistant Professor BERDAN.

An analytic study of the poetry and prose of the sixteenth century, exclusive of the drama.

C 43 *Milton and his Contemporaries.* 2 hrs.

## Professor BEERS.

The *belles lettres* of the Puritan Revolution. All Milton's English and some of his Latin poems, with his most important prose; the Church poets and Cavaliers, diaries, memoirs, etc.

[\*C 45 *English Literature of the Seventeenth Century.*

[Seniors.] 1 hr., to count as 2 hrs.

## Professor PHELPS.

A study of English poetry and prose from Donne to Dryden, exclusive of the drama. The social life of the times is discussed in connection with some of the authors read.

Omitted in 1908-09.]

[\*C 47 *English Literary Drama of the Nineteenth Century.*

1 hr.

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The class-room work is identical with that of B 25. In addition extra reading is assigned and a thesis embodying the results of individual outside investigation is required of each member of the class.

Omitted in 1908-09.]

\*C 49 *The Contemporary Drama.*

1 hr.

## Professor PHELPS.

A study of contemporary stage-plays, such as those of Ibsen, Sudermann, Hauptmann, Mæterlinck, Rostand, Mirbeau, Fitch, Pinero, and Jones. No student is permitted to elect this course who cannot read both French and German.

\*C 51 *English Poets of the Nineteenth Century* [after B 19, passed with a grade of A or B]. [Seniors.] 1 hr.

## Professor LEWIS.

No class-room work. Examinations upon assigned reading, and three theses for criticism in conference. The longer works of Wordsworth, Byron, Shelley, Clough, Swinburne, and others.

\*C 53 *English Philosophical Literature.*

2 hrs.

## Dr. SNEATH.

A study of the masterpieces of English philosophical literature. The authors studied are Bacon, Hobbes, the Cambridge Platonists, Clarke, Locke, Berkeley, Hume, Shaftesbury, Butler, Reid, and the Common Sense School. Lectures and written tests.

\*C 55 *The Philosophy of the English Poets.*

2 hrs.

Dr. SNEATH.

A study of the reflective thought of the following English poets : Spenser, Sir John Davies, Milton, Dryden, Pope, Coleridge, Wordsworth, Tennyson, and Browning. Lectures and written tests.

\*D 57 *Theories of Poetry*. [Seniors.] 1 hr., to count as 2 hrs.  
Professor COOK.

A course in the theories of poetry in general, and in the principles of criticism applicable to its various departments, as the epic, dramatic, and lyric.

[\*D 59 *Literary Types*. [Seniors.] 1 hr., to count as 2 hrs.  
Professor COOK.

A survey of European literature, with reference to the characterization and illustration of the more important species. Candidates must satisfy the instructor with regard to their proficiency in French, German, and Latin.

Omitted in 1908-09.]

[\*D 61 *English Literary Criticism*. 1 hr., to count as 2 hrs.

A historical survey of literary criticism in England since the middle of the sixteenth century.

Omitted in 1908-09.]

\*D 63 *Shakespeare* [with B 7]. [Seniors.] 1 hr.  
Professor LEWIS.

First term : a minute study of *Macbeth*, on the basis of Furness's *Variorum*. Second term : miscellaneous problems as to date, authenticity, and genesis of various plays, for private investigation and conference.

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COMPARATIVE STUDY OF LITERATURE

[\*I *Renaissance Fiction*. 2 hrs.  
Assistant Professor SCHEVILL.

A study of fiction, chiefly of the sixteenth and seventeenth centuries : the origin of the various types in Italy, Spain, and France ; the sources and transmission of tales, etc.

Omitted in 1908-09.]

## XIV. THE FINE ARTS

For *Greek, Roman, and Etruscan Art*, see Classical Archæology B 1, B 3, B 5, B 7, and C 9. For *The History of Art, etc., in Japan*, see History C 49.

- 1 *Drawing (Pen and Pencil)*. [Juniors.] 4 hrs.,  
to count as 2 hrs.

Mr. E. C. TAYLOR.

This course is designed to teach the fundamental principles of art as understood by the artist, and is also adapted to those students who are interested in art as part of a liberal education.

- 3 *Architecture*. 4 hrs., to count as 2 hrs.

Mr. R. H. DANA.

This course teaches, by means of lectures and graphic representation, the classic styles of architecture, and also the history and significance of decorative design.

- 5 *Painting [after 1]*. [Seniors.] 4 hrs., to count as 2 hrs.

Professor WEIR.

Studies in water-color painting from still-life and the living model, with lectures on the grammar of art and studies in composition and in sketching from nature.

- 7 *Modeling*. [Seniors.] 4 hrs., to count as 2 hrs.

Mr. LAWRIE.

Modeling from the antique and the living figure, supplemented by lectures given in course 5.

## XV. MUSIC

- 1 *Harmony*. 2 hrs.

Mr. D. S. SMITH.

The study of chords, progressions, modulation, and non-harmonic notes. The work consists of exercises in figured-bass, the harmonization of melodies, and harmonic analysis.

- 3 *History of Music*. 1 hr.

Professor PARKER.

Lectures on the development of music from its earliest stages, with biographical sketches of composers, and practical illustrations at the piano. Parry's *The Evolution of the Art of Music*.

- 5 *Practical Music* [with one of the theoretical courses, except in the case of violoncello-playing and singing]. 1 hr.

Professors SANFORD and JEPSON, Assistant Professors TROOSTWYK and KNIGHT, Mr. RABOLD, Mr. SCHULZ, Mr. L. WILLIAMS, and Mr. S. D. BINGHAM.

Private instruction in piano-, organ-, violin-, and violoncello-playing and in singing. Fees range from \$50.00 to \$100.00 for the College year. Private piano or organ practice may be obtained for a small fee.

7 *Counterpoint* [after 1]. . . . . 2 hrs.  
Mr. D. S. SMITH.

Practice in strict counterpoint, both simple and double, harmonization of chorales, composition of short pieces in a freer style, and analysis of simple polyphonic forms. Spalding's *Tonal Counterpoint*.

9 *Strict Composition* [after 7]. . . . . 2 hrs.  
Professor PARKER.

The writing of canons, fugues, and polyphonic choral movements. Each student is required to submit at the close of the year a complete four-voiced fugue.

\*11 *Instrumentation* [after 7]. . . . . 2 hrs.  
Mr. HAESCHE.

Lectures on the characteristics of all the instruments of the modern orchestra, with illustrations of their use by great composers; exercises in practical orchestration, and playing from orchestral scores.

13 *Free Composition* [after 9]. . . . . 2 hrs.  
Professor PARKER.

The writing of free vocal and instrumental pieces in the smaller forms, and later in the sonata form, either for single instruments or for combinations of instruments. No text-book is used.

\*15 *Advanced Orchestration and Conducting* [after 11]. 1 hr.  
Professor PARKER.

The study of old and new orchestral scores; practical instruction in conducting; orchestration of original or other compositions. No text-book is used, but students are required to buy a number of orchestral scores.

## (2) MATHEMATICS AND THE PHYSICAL AND NATURAL SCIENCES

### XVI. MATHEMATICS

The mathematical courses described in the following pages fall into three main groups, namely, Pure Mathematics, Mathematical Physics, and Engineering Sciences. The course in *Analytical Geometry and Calculus* (B 7 or B 9) is the foundation of each of these groups, and should be taken not later than Sophomore year. The further sequence of courses desirable for students in the several groups is as follows :

Students in Pure Mathematics should take the courses in *Algebra and Analytical Geometry* (B 11) and *Mechanics* (B 15) in their Junior year, and those in *Projective Geometry* (C 23) and *Introduction to the Theory of Functions* (D 25) in their Senior year ; students in Mathematical Physics, the courses in *Mechanics* (B 15) and *Advanced Calculus* (C 17) not later than their Junior year, *Theoretical Physics* (Physics C 9) in their Junior or Senior year, and *Advanced Mechanics* (D 27) in their Senior year ; and students in Engineering Sciences, the courses in *Algebra and Analytical Geometry* (B 11), *Descriptive Geometry and Machine-Drawing* (13), and *Machine-Designing* (21).

It is desirable even for students of Pure Mathematics that they acquire the elements of Descriptive Geometry and facility in the use of drawing instruments.

As modern mathematical literature is largely in French and German, students should acquire as soon as possible a good reading knowledge of these languages.

The rooms of the Mathematical Club and the Mathematical Laboratory, at 90 High street, are open to students taking the more advanced courses.

A 1 *Plane Trigonometry, Advanced Algebra, and Solid Geometry* [may count as an A course in a minor in Physics if followed by Physics B 3]. [Freshmen.] 3 hrs.  
Professor BEEBE, Assistant Professor HAWKES, Mr. BURGESS, and Mr. SHELDON.

[3† *Descriptive Astronomy* [after A 1]. 3 hrs. 1st term,  
to count as 1 hr. for the year.

Professor BEEBE.

† May count as of A grade for the classes of 1909 and 1910.

Intended principally for the study of the historical and physical side of Astronomy. Opportunity is given for the use of the telescope. Text-book : Young's *Elements of Astronomy*.

Omitted in 1908-09.]

\*5† *Surveying* [after A 1]. 8 hrs. Spring half-term,  
to count as 1 hr. for the year.

Professor BEEBE.

Field work with level, transit, and plane table; correction of instrumental errors; drawing of contour maps. Required of those electing advanced work in Geology, and open to a limited number of others on application.

B 7 *Analytical Geometry and Calculus*. [Freshmen.] 3 hrs.  
Professor BEEBE.

Instead of A 1 for Freshmen who have anticipated Solid Geometry and Plane Trigonometry.

B 9 *Analytical Geometry and Calculus* [after A 1].  
[Sophomores, Juniors, and Seniors.] 3 hrs.

Professor PHILLIPS.

Should be taken by all who propose to take advanced courses in Pure and Applied Mathematics, Mathematical Physics, or certain courses in Chemistry, Economics, and Statistics.

B 11 *Algebra and Analytical Geometry* [after B 7 or B 9]. 2 hrs.  
Assistant Professor HAWKES.

This course treats those facts and methods of Algebra and Analytical Geometry which are indispensable for the pursuit of Pure Mathematics, Physics, or Engineering.

\*13§ *Descriptive Geometry and Machine-Drawing* [after B 7  
or B 9]. 3 hrs., to count as 2 hrs.

Professor C. B. RICHARDS and Assistant Professor MARSHALL.

This course includes the principles of orthographic projection, the intersection and development of surfaces, and the elements of machine-drawing. Open only to a limited number and with the written approval of Professor Phillips.

B 15 *Mechanics* [after B 7 or with or after B 9; may count  
as a B course in Physics if taken in combination  
with Physics B 3, B 7, and C 9]. 2 hrs.

Professor BROWN.

† May count as of A grade for the classes of 1909 and 1910.

§ May count as of B grade for the classes of 1909 and 1910.



The principles of Mechanics, founded on Newton's Laws of Motion ; applications to the simpler physical problems of particles and bodies in equilibrium and in motion.

**C 17** *Advanced Calculus* [after B 7 or B 9].

[Sophomores,† Juniors, and Seniors.] 3 hrs.

Professor BROWN.

This course is a continuation of B 7 and B 9, and also treats differential equations and those parts of the Calculus which are specially useful in Applied Mathematics.

**198** *Geometry* [after B 7 or B 9, and with or after B 11].

2 hrs.

Assistant Professor HAWKES.

Historical and critical study of elementary Geometry, especially intended for those who expect to teach.

**\*218** *Machine-Designing* [after 13]. 7 hrs., to count as 4 hrs.

Professor C. B. RICHARDS.

This course is a continuation of course 13, and is open only to a limited number of those who have taken that course.

**C 23** *Projective Geometry* [after B 11].

2 hrs.,

to count as 3 hrs.

Professor PIERPONT.

Both the analytic and the synthetic methods are used to develop the fundamental properties of points, lines, planes, conics, and quadric surfaces, and the linear transformation in the plane and in space.

**D 25** *Introduction to the Theory of Functions.*

2 hrs.,

to count as 3 hrs.

Professor PIERPONT.

The fundamental concepts of the Calculus ; functions of a complex variable, including a sketch of the elliptic functions.

**\*D 26** *Elementary Real Variable.* 2 hrs., to count as 3 hrs.

Professor PIERPONT.

**D 28** *Advanced Mechanics* [after B 15 and C 17]. 2 hrs.,

to count as 3 hrs.

Professor BROWN.

A continuation of B 15, including Lagrange's equations and theoretical dynamics, with numerous applications to particles and rigid bodies.

† Open as a Sophomore course only to those who have taken B 7 in Freshman year.

§ May count as of C grade for the classes of 1909 and 1910.

**THE PHYSICAL SCIENCES (GROUPS XVII, XVIII)**

Physics and Chemistry are fundamental to all branches of science. They should, therefore, be taken early by all who propose to do any extended work in science or the technical professions, or to study Medicine.

**XVII. PHYSICS**

The elementary instruction in Physics is divided into two courses, A 1 and B 3. Of these, A 1 is intended for those students who desire only a general acquaintance with the phenomena and fundamental principles of Physics, and *who do not intend to proceed further in the subject*. B 3 presupposes Mathematics A 1 (or its anticipation in the entrance examination), and presents the subject in greater detail and in a manner more satisfactory and more useful to students who expect to continue in Physics or in other scientific studies; it is introductory to, and a necessary preparation for, the other courses in Physics. B 5 is designed to supplement B 3 by affording additional practice in the solution of problems. B 7 should be chosen by those who intend to devote themselves to any branch of science or to the study of Medicine. C 9 and C 11 should be chosen by those who intend to study Engineering in any of its branches or to engage in manufacturing. Students wishing to specialize in Physics should take also Mathematics B 15 (*Mechanics*) and C 17 (*Advanced Calculus*). One or more courses in Inorganic Chemistry also are desirable.

Seniors who have completed C 9 and Mathematics C 17 may, with the consent of the instructor, be received into the following graduate courses and count them as D courses in Physics: *Theory of Errors* and *Physical Optics* (Professor HASTINGS); *Vectors* (Assistant Professor BEACH); *Radioactivity* (Assistant Professor BOLTWOOD); *Thermodynamics* (Assistant Professor L. P. WHEELER); and *Spectroscopy* (Dr. UHLER). These courses are described in the pamphlet of the Graduate School.

The requirements for a major may be met in Physics by taking any one of the three following combinations of courses : (1) B 3, B 5, B 7, and C 9 ; (2) B 3, B 7, C 9, and C 11 ; or (3) B 3, B 7, C 9, and Mathematics B 15 (*Mechanics*), which, *in this combination only*, may count as a B course in Physics.

A minor in Physics may consist of : (1) Mathematics A 1 (which, *in this combination only*, may count as an A course in Physics) and Physics B 3 (6 hrs.) ; (2) Mathematics A 1 and Physics B 3 and B 5 (7 hrs.) ; (3) Mathematics A 1 and Physics B 3 and B 7 (8 hrs.) ; (4) Physics B 3 and B 7 (5 hrs.) ; or (5) Physics B 3, B 5, and B 7 (6 hrs.).

As Mathematics A 1 (*Plane Trigonometry, Advanced Algebra, and Solid Geometry*) is prerequisite to the B courses in Physics, and Mathematics B 7 or B 9 (*Analytical Geometry and Calculus*) to the C courses, the taking of a major in Physics automatically satisfies the requirement as to taking a minor in the same main division of courses as the major.

For *Physical Chemistry*, see Chemistry C 11.

A 1 *Elementary Physics* [does not count as an A course in Physics, but may count as an A course in Geological Sciences if followed by Geological Sciences B a3 or B a5].

[Sophomores, Juniors, and Seniors.] 3 hrs.

Assistant Professor KREIDER.

A general course, covering the mechanics of solids, liquids, gases, heat, magnetism, electricity, sound, and light ; conducted by recitations and lectures, fully illustrated by apparatus and experiments.

B 3 *General Physics* [after Mathematics A 1, which counts as an A course in Physics in this combination ; may count as an A course in Geological Sciences if followed by Geological Sciences B a3 or B a5].

[Sophomores, Juniors, and Seniors.] 3 hrs.

Assistant Professor KREIDER and Dr. UHLER.

This course, like the preceding one, assumes no previous knowledge of Physics. It covers essentially the same ground as A 1, but with more extended mathematical development of physical laws and theories.

[B 5 *Problems in Physics* [with B 3].

[Sophomores,† Juniors, and Seniors.] 1 hr.

Assistant Professor KREIDER and Dr. UHLER.

A supplementary course to B 3, affording practice in the solution of additional problems involving the principles discussed in that course.

Omitted in 1908-09.]

B 7 *Elementary Laboratory Physics* [with or after B 3].

[Sophomores,† Juniors, and Seniors.] 3 hrs.,  
to count as 2 hrs.

Assistant Professor BOLTWOOD and Dr. UHLER.

Elementary laboratory work in mechanics, heat, sound, light, electricity, and magnetism, supplemented by occasional lectures and recitations. It is recommended that (when possible) this course be taken *with* B 3 rather than *after* it.

C 9 *Introduction to Theoretical Physics* [after B 3 and  
Mathematics B 7 or B 9]. 3 hrs.

Professor BUMSTEAD.

Mechanics, thermodynamics, the kinetic theory of gases, the wave-theory of light, and the elementary mathematical theory of electricity and magnetism. Lectures and recitations.

C 11 *Advanced Laboratory Physics* [after B 7 and with or  
after C 9]. 6 hrs., to count as 4 hrs.

Professor BUMSTEAD and Dr. UHLER.

An advanced course in the laboratory. Problems of considerable experimental difficulty and involving a knowledge of mathematical Physics such as may be obtained in C 9. It is recommended that (when possible) this course be taken *with* C 9 rather than *after* it.

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† By Sophomores this course may be taken only outside of the required fifteen hours.

## XVIII. CHEMISTRY

The first course, *Inorganic Chemistry* (A 1), is intended to meet the needs of those students who desire a general knowledge of the facts and methods of Chemistry, and is a necessary preparation for the higher courses. *Qualitative Analysis* (B 3) and *Organic Chemistry* (B 5) should be taken by those preparing to study Medicine, as well as by all who intend to take advanced courses in Chemistry. The higher courses are for those who wish to teach Chemistry, to fit themselves for the study of applied Chemistry, to enter the technical schools with advanced standing, or to secure for any reason extended training in Chemistry. Other courses, intended primarily for graduates, may, with the instructor's permission, be taken by sufficiently advanced undergraduates and counted as D courses.

The sequence of courses for undergraduates is shown in the following scheme :

$$A\ 1 \dots\dots \left\{ \begin{array}{l} B\ 3 \dots\dots \\ B\ 5 \dots\dots \end{array} \right. \left\{ \begin{array}{l} C\ 7 \dots\dots D\ 15 \\ C\ 9 \dots\dots D\ 17 \\ C\ 11 \dots\dots D\ 19 \\ C\ 13 \dots\dots D\ 21 \end{array} \right.$$

Subject to these restrictions as to sequence, any four courses may be taken to make a major and any two courses to make a minor.

For the laboratory courses a fixed charge is made (to cover the expenditure for chemicals, gas, water, etc.), in addition to the cost of apparatus broken or not returned in serviceable condition. For each course except the lecture courses, C 13 and D 19, the fixed charge is \$20.00. The charge for breakage should not exceed, in the average, \$5.00 for each laboratory course.

For *Physiological Chemistry*, see Biological Sciences C 31 and D 37.

A 1 *Inorganic Chemistry* [may count as an A course in Geological Sciences if followed by Geological Sciences B a3 or B a5].

[All classes.] 6 hrs., to count as 3 hrs.

Professor GOOCH, Assistant Professor BROWNING, Dr. VAN NAME, and Dr. DRUSHEL.

Lectures, laboratory work, and class-room exercises. An introduction to elementary chemical theory, the use of symbols and equations, and the study of the elements and their compounds.

B 3 *Qualitative Analysis* [after A 1]. [Sophomores, Juniors, and Seniors.] 6 hrs., to count as 3 hrs.

Assistant Professor BROWNING.

Laboratory practice in the ordinary processes of Qualitative Analysis, with lectures.

B 5 *Organic Chemistry* [after A 1]. [Sophomores, Juniors, and Seniors.] 5 hrs., to count as 3 hrs.

Professor GOOCH and Dr. DRUSHEL.

An introduction to the study of the compounds of carbon. Lectures, written exercises, and laboratory work.

\*C 7 *Quantitative Analysis* [with or after B 3]. 6 hrs., to count as 3 hrs.

Professor GOOCH.

Lectures, with laboratory practice in the use of typical methods of gravimetric and volumetric Quantitative Analysis.

\*C 9 *The Rare Elements* [after B 3]. 5 hrs., to count as 3 hrs. Assistant Professor BROWNING.

Lectures and laboratory work, covering the principal reactions of the elements not included in the general course (A 1). The methods in use for the qualitative determinations of these elements are carefully studied.

\*C 11 *Physical Chemistry* [after B 3]. 5 hrs., to count as 3 hrs.

Dr. VAN NAME.

Lectures on the modern theories of Physical Chemistry, including Electrochemistry, and laboratory practice in typical physico-chemical measurements.

\*C 13 *The Carbon Compounds, Descriptive and Theoretical* [after B 5]. 3 hrs.

Dr. DRUSHEL.

A course of lectures treating systematically the more important compounds of carbon and the theories concerning them.

- \*D 15 *Inorganic Reactions* [after C 7]. 6 hrs.,  
*to count as 3 hrs.*

Professor GOOCH.

The experimental study of known reactions and processes of Inorganic Chemistry, the use of original sources of information, and the preparation of papers. A working knowledge of French and of German is required.

- \*D 17 *Preparation Processes* [after C 9]. 6 hrs.,  
*to count as 3 hrs.*

Assistant Professor BROWNING.

The experimental study of methods used in the preparation of the rare elements and their compounds, with the use of original literature. A working knowledge of French and of German is required.

- \*D 19 *Chemical Theory* [after C 11]. 2 hrs.,  
*to count as 3 hrs.*

Dr. VAN NAME.

The systematic study of Nernst's *Theoretical Chemistry*, with some use of the original sources. A working knowledge of Calculus and of German is required.

- \*D 21 *Organic Preparations* [after C 13]. 6 hrs.,  
*to count as 3 hrs.*

Dr. DRUSHEL.

Practice in organic synthesis, with the use of original literature. A working knowledge of French and of German is required.

**THE NATURAL SCIENCES (GROUPS XIX, XX)****XIX. THE GEOLOGICAL SCIENCES**

GEOLOGY; MINERALOGY; GEOGRAPHY; PALEONTOLOGY

Those who wish to gain a general knowledge of the facts and methods of Geology and Paleontology are advised to elect:

In Junior or Senior year: Geological Sciences B 23 (*General Geology*).

Those who intend to become teachers of Geology, or to become members of state or national surveys, or who for any reason desire extended training in Geology, are advised to elect:

In Freshman and Sophomore years: Mathematics B 7 (*Analytical Geometry and Calculus*), or A 1 (*Plane Trigonometry, Advanced Algebra, and Solid Geometry*) and B 9 (*Analytical Geometry and Calculus*); Physics A 1 (*Elementary Physics*) or B 3 (*General Physics*); Chemistry A 1 (*Inorganic Chemistry*) and B 3 (*Qualitative Analysis*); Geological Sciences A 1 (*Physical and Commercial Geography*) and B 7 (*Mineralogy and Crystallography*).

In Junior year: Mathematics 5 (*Surveying*); Geological Sciences B 23 (*General Geology*), B 25 (*Field and Laboratory Work*), B 9 (*Mineralogy and Crystallography*), and B 17 (*Organic Evolution*).

In Senior year: Geological Sciences B 19 (*Geological Biology*), C 21 (*Advanced Paleontology*), D 23 (*Advanced Stratigraphic Paleontology and Paleogeography*), C 25 or D 27 (*Structural Geology*), C 29 or D 31 (*Physiography*), and D 35 (*Field Geology*).

The following courses may be elected by students whose interests are mainly geographical:

Geological Sciences A 1 (*Physical and Commercial Geography*), B 11 (*Geography of North America*), B 13 (*Geography of South America*), B 15 (*Geography of Asia*), and C 33 (*Geographic Controls in History*).

Special attention is called to the course in *Surveying* (Mathematics 5), which is required of those who undertake advanced work in Geology.

A limited number of Sophomores who intend to specialize in Geology may obtain permission to take *Mineralogy and Crystallography* (B 7) out of the required fifteen hours.



Physics A 1 (or B 3) or Chemistry A 1 may count as an A course in Geological Sciences if followed by Geological Sciences B a3 or B a5. A major in this group consists of Geological Sciences A 1 (or Physics A 1 or B 3 or Chemistry A 1), B a3, and B a5 (B 7 also is recommended), followed by at least two hours of work of C or D grade. A minor may consist of: (1) Geological Sciences A 1 (or Physics A 1 or B 3 or Chemistry A 1) and B a3; (2) Geological Sciences A 1 and at least two hours from B 11, B 13, and B 15; or (3) Geological Sciences B a3 and at least three hours of other work of B, C, or D grade.

A 1 *Physical and Commercial Geography* [this is also the A course in Anthropology]. [Sophomores.] 3 hrs.  
Professor GREGORY, Assistant Professor BISHOP, Mr. BOWMAN, Mr. HUNTINGTON, Dr. BOGGS, Mr. H. P. FAIRCHILD, and Mr. VARNEY.

The physical features of the land; ocean; climate; the natural distributions of flora, fauna, minerals, etc.; the conditions of human life as affected by natural environment. Text-books and laboratory work.

B a3 *General Geology* [counts only as an A course unless taken after Physics A 1 (or B 3), Chemistry A 1, or Geological Sciences A 1]. 2 hrs.

Professors GREGORY and BARRELL.

The structural features of the earth; the forces by which its present condition has been attained; the past history of the earth, including the evolution of living forms. Lectures, text-books, and excursions.

\*B a5 *Geology with Field and Laboratory Work* [counts only as an A course unless taken after Physics A 1 (or B 3), Chemistry A 1, or Geological Sciences A 1]. 3 hrs., to count as 2 hrs.

Professor BARRELL and Mr. HUNTINGTON.

This course is designed to be taken with, and to supplement the exercises of, B a3, but may be taken separately by those properly prepared.

- B 7 *Mineralogy and Crystallography* [after or with a course in Chemistry]. [Sophomores,† Juniors, and Seniors.] 4 hrs., *to count as 2 hrs.*

Professor E. S. DANA.

Practical study of mineral species by means of blowpipe analysis and other methods; mathematical study of the forms of crystals.

- B 9 *Mineralogy and Crystallography*. 6 hrs., *to count as 3 hrs.*  
Professor E. S. DANA.

This course consists of the exercises of B 7 and, in addition, laboratory work to average two hours per week. Those who have completed B 7 may take in the following year the additional work included in B 9.

- B 11 *Geography of North America*. 2 hrs.  
Mr. BOWMAN.

The regional geography of North America in its physical, political, and commercial aspects; types of physical environment in relation to types of human activity; the life relationships of the physiography of North America. Lectures, maps, and library work.

- B 13 *Geography of South America* [may count as a B course in History if taken in connection with History B 28]. 2 hrs. 2d half-year, *to count as 1 hr. for the year.*

Mr. BOWMAN.

A course in the geography of South America similar to course B 11 for North America.

- B 15 *Geography of Asia*. 2 hrs. 1st half-year, *to count as 1 hr. for the year.*

Mr. HUNTINGTON.

A course in the geography of Asia similar to courses B 11 and B 13 for America.

- B 17 *Organic Evolution*. 2 hrs. 1st half-year, *to count as 1 hr. for the year.*

Assistant Professor LULL.

A course of lectures, illustrated by specimens, charts, and lantern-views, on the evolution of plants, of animals, and of man. It is advised that this course be taken with or after B a3.

† By Sophomores this course may be taken only with the permission of the instructor and outside of the required fifteen hours.

- \*B 19** *Geological Biology* [after Biological Sciences A 1].  
[Seniors.] 2 hrs.

Assistant Professor LULL.

In this course organisms are the chief objects of study, and their nature, succession, relations to environment, ancestry, and time, and the principles of organic evolution in their geological relations, are examined.

- \*C 21** *Advanced Paleontology.* 6 hrs., to count as 3 hrs.

Professor SCHUCHERT and Assistant Professor LULL.

The object of this course is to acquaint the student with the structure, evolution, and classification of the various classes of invertebrate and vertebrate animals found as fossils.

- \*D 23** *Advanced Stratigraphic Paleontology and Paleogeography.* 6 hrs., to count as 3 hrs.

Professor SCHUCHERT and Assistant Professor LULL.

In this course the student is acquainted with the essential or guide fossils which characterize the major divisions of geological time, the appearance, change, and geographical distribution of the leading faunas, and the significance of these in determining the distribution and character of the ancient seas and lands.

- \*C 25** *Structural Geology.* 2 hrs. and occasional excursions,  
to count as 2 hrs.

Professor BARRELL.

An advanced course, dealing with such subjects as ancient sedimentary formations, crustal movements, and the nature and results of igneous and metamorphic activities. Lectures, papers prepared by the students, and occasional excursions.

- \*D 27** *Structural Geology.* 3 hrs.

Professor BARRELL.

This course consists of the exercises of C 25 and, in addition, a larger amount of field work and the reading of geological literature, occasionally in foreign languages.

- \*C 29** *Physiography* [after B a3 or B a5].  
2 hrs. and occasional excursions, to count as 2 hrs.

Mr. BOWMAN.

A study of the origin, development, and classification of land forms, followed by a study of the physiography of the United States. The exercises include lectures, field excursions, and the reading of topographical maps and of physiographical literature.

- \*D 31 *Physiography* [after B a3 or B a5]. 3 hrs.  
Professor GREGORY and Mr. BOWMAN.

This course consists of the class exercises of C 29 and, in addition, a field problem, which must be satisfactorily completed and reported upon in writing.

- [\*C 33 *Geographic Controls in History*. 2 hrs. 2d half-year,  
*to count as 1 hr. for the year.*

Mr. BOWMAN and Mr. HUNTINGTON.

The geographic elements of man's environment as a factor in history ; individual study of the geographic conditions affecting the history of a limited region in America, Europe, or Asia. Lectures, discussions, and theses.

Omitted in 1908-09.]

- \*D 35 *Field Geology* [after B a5]. Two afternoons weekly,  
*to count as 3 hrs.*

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Field work upon selected areas in the vicinity of New Haven, supplemented by lectures and laboratory exercises upon the construction and use of topographical and geological maps.

## XX. THE BIOLOGICAL SCIENCES

GENERAL BIOLOGY ; BOTANY ; COMPARATIVE ANATOMY AND ZOOLOGY ; HUMAN ANATOMY, HISTOLOGY, AND EMBRYOLOGY ; PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY ; PATHOLOGY AND BACTERIOLOGY

For students who do not intend to specialize in the subject the courses in *Elementary Biology* (A 1), *Organic Evolution* (3), and *Physiology* (29) are recommended. Those who expect to study Forestry are advised to take *Elementary Biology* (A 1) and the courses in Botany. Those who intend to take up the study of Medicine after first completing the course for the B.A. degree should take *Elementary Biology* (A 1) and *Embryology and Comparative Anatomy of Vertebrates* (C 15). The following courses also will be found useful for such students : *General Botany of the Flowering Plants* (B 5), *Invertebrate Zoology* (B 11), *Physiology* (29), and *Physiological Chemistry* (C 31 or D 37).

### COMBINED ACADEMICAL AND MEDICAL COURSE

In accordance with an agreement between the College

and the Medical School, students in the Academical Department are allowed to pursue in the Medical School a series of pre-clinical or scientific courses, described below, which are in their nature appropriate for the degree of Bachelor of Arts. If, in addition to these theoretical studies, they pursue during their Senior year the Medical School course in *Pharmacology and Toxicology* (which also is open to Academical Seniors, though not counted toward the degree of B.A.), they may thus, by taking a certain number of extra hours, complete while in College the work of the first two years of the Medical School curriculum, and will consequently be able to obtain both the degree of B.A. and the degree of M.D. by six years of work.

Courses C 23, C 25, 27, 29, C 31, C 35, and 39, together with Chemistry A 1 (*Inorganic Chemistry*), B 3 (*Qualitative Analysis*), B 5 (*Organic Chemistry*), and the above-mentioned course in *Pharmacology and Toxicology*, cover the required work of the first two years of the Medical School curriculum. They are offered to Academical undergraduates for the purpose of affording students who are looking forward to the practice of Medicine the opportunity to anticipate, wholly or partly, the pre-clinical studies of the medical course. Juniors and Seniors who have taken Physics A 1 (*Elementary Physics*) or B 3 (*General Physics*) may matriculate in the Medical School. A course in Laboratory Physics also is desirable, and a good reading knowledge of German is very important in Medicine.

Those who matriculate in the Medical School and complete Chemistry A 1, B 3, and B 5 and Biological Sciences C 23, C 25, 29, and C 31 may receive credit for one year's registration as medical students. Those who matriculate two years and, in addition to the courses just mentioned, complete Biological Sciences 27, C 35, 39, and the course in *Pharmacology and Toxicology* may receive credit for two years' registration as medical students. Upon receiving such credit for two years' registration, a student will be admitted to the Junior class in the Medical School.

Students who do not wish to do all the above work while in College may receive credit in the Medical School for any portion of it, provided they are duly matriculated as medical students during its progress.

#### SPECIALIZATION IN BIOLOGY: MAJORS AND MINORS

It is to be noted, with regard to the requirements as to major(s) and minors, that the subject of Biology embraces a number of subdivisions and that each major or minor in Biology must be taken wholly within one of these subdivisions, which are as follows: (*a*) Botany (courses B 5-C 9); (*b*) Comparative Anatomy and Zoology, including Human Anatomy, Histology, and Embryology (courses B 11-27); and (*c*) Physiology and Physiological Chemistry, including Pathology and Bacteriology (courses 29-39). The course in *Elementary Biology* (A 1) is fundamental to all the subdivisions and is required of all students who wish to specialize in Biology. Such students should elect this course in Sophomore year. In order to complete a major, a student must elect, in addition to *Elementary Biology* (A 1), two other courses (aggregating at least six hours) in Junior and Senior years in one of the three subdivisions named above.

All students who make any branch of Biology their major subject are required to take at least the elementary courses (A 1) in Chemistry and in Physics. The former should be elected in Freshman year and the latter in Sophomore year. Mathematics B 7, or A 1 and B 9, Physics B 3 and B 7 (instead of A 1), and Chemistry B 3 and B 5 are almost indispensable to a thorough understanding of Biology, and it is urgently recommended that all biological students elect these courses. In addition, it is desirable that such students have some knowledge of Geology and Psychology. Attention is therefore called to the following courses as being suitable for this purpose: Geological Sciences B a3 (*General Geology*), B 17 (*Organic Evolution*), B 19 (*Geological Biology*), and C 21 (*Advanced Paleontology*); Philosophy A b5 (*Psychology*),

B 13 (*Experimental Psychology*), and B 15 (*Physiological Psychology*). For *Natural History of Man*, see Anthropology C 11.

## GENERAL BIOLOGY

A 1 *Elementary Biology*. [Sophomores, Juniors, and Seniors.] 5 hrs., to count as 3 hrs.

Professors HARRISON and EVANS, Assistant Professor COE, Dr. GRAVES, Dr. KUNKEL, Dr. WOODRUFF, and Assistants.

Lectures, laboratory work, and demonstrations, illustrating the general principles of Biology. A laboratory fee of ten dollars is charged for this course.

3† *Organic Evolution*. 1 hr.  
Dr. KUNKEL.

Illustrated lectures and demonstrations, intended primarily for those who have had little or no training in Biology and who desire merely a broad knowledge of the subject for general culture.

## BOTANY

B 5 *General Botany of the Flowering Plants* [after A 1].  
6 hrs., to count as 3 hrs.

Professor EVANS and Dr. GRAVES.

Laboratory work and informal lectures. Field excursions in the Spring half-term are devoted to the systematic study of the more common trees, shrubs, and herbs.

B 7 *Forest Botany* [after A 1]. 4 hrs. 1st term,  
to count as 1 hr. for the year.

Dr. GRAVES.

Field excursions devoted to ecological and taxonomic studies of the species of woody plants occurring in New Haven and vicinity.

C 9 *Morphology of Plants* [after A 1]. 6 hrs.,  
to count as 3 hrs.

Professor EVANS and Dr. GRAVES.

Laboratory work and informal lectures. This course may precede, or be taken simultaneously with, B 5. A laboratory fee of ten dollars is charged for this course.

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† May count as of A grade for the classes of 1909 and 1910.

## COMPARATIVE ANATOMY AND ZOOLOGY

B 11 *Invertebrate Zoology* [after A 1]. 6 hrs., *to count as 3 hrs.*

Professor ——— and Dr. COLE.

Lectures, demonstrations, and dissections of invertebrate types. A course chiefly in the comparative anatomy of invertebrates, but taking up also habits, life-histories, embryology, and forms of economic interest.

B 13 *Animal Behavior* [after A 1]. 2 hrs.

Dr. COLE.

A lecture course. A comparative study of the behavior of organisms, from the simplest reactions of the lower forms up to the psychology of the higher animals. Introductory or supplementary to human psychology.

C 15 *Embryology and Comparative Anatomy of Vertebrates*  
[after A 1]. 6 hrs., *to count as 3 hrs.*

Professor HARRISON and Dr. KUNKEL.

Lectures and laboratory work. (1) The study of the development of vertebrates, especial attention being given to the histogenesis of the tissues. (2) Comparative Anatomy, including the dissection of a number of representative types of vertebrates.

C 17 (a) *Parasitology* and (b) *General Physiology of the Lower Organisms*. 3 hrs., *to count as 2 hrs.*

Dr. WOODRUFF.

(a) First term : A study of animal and plant parasites, except the bacteria. Lectures and laboratory work.

(b) Second term : A general survey of the physiology of the lower organisms. Lectures and laboratory work. A laboratory fee of ten dollars is charged for this course.

D 19 *Animal Behavior*. At least 6 hrs.

Dr. COLE.

Experimental laboratory work on problems in the behavior of animals.

D 21 *Biology of the Cell* [after B 11 and C 15]. 5 hrs.,  
*to count as 3 hrs.*

Assistant Professor COE.

A practical study of the structure and manifestations of the animal cell. The bearing of the subject on the problems of growth, heredity, and evolution is discussed in informal lectures.



D 22 *History of Biology.* 1 hr. 2d half-year.  
Dr. WOODRUFF.

HUMAN ANATOMY, HISTOLOGY, AND EMBRYOLOGY

C 23 *Human Anatomy.* 5 hrs.  
Professor FERRIS.

This is the first year's work in Anatomy in the Medical School. The instruction is given by recitations and by work in the anatomical laboratory.

C 25 *Human Histology and Embryology.* 5 hrs.,  
*to count as 3 hrs.*

Professor FERRIS.

Recitations and laboratory work in both Histology and Embryology. All the tissues and organs are studied.

27† *Human Anatomy* [after C 23]. [Seniors.]  
3 hrs. and laboratory work, *to count as 3 hrs.*

Professor FERRIS.

This is the continuation of C 23. It includes visceral and topographical Anatomy, the organs of sense, and the morphology of the vascular, respiratory, and peripheral nervous systems.

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

29§ *Physiology.* [Sophomores‡ and Juniors.] 1 hr.  
Professor CHITTENDEN.

This course is designed to give familiarity with the structure and functions of the body, as part of a general education and, at the same time, as a preparation for more advanced biological work.

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\*C 31 *Physiological Chemistry, with special reference to the Physiology of Nutrition* [after Chemistry A 1 and Biological Sciences 29]. 5 hrs., *to count as 3 hrs.*

Professor CHITTENDEN and Assistant Professor UNDERHILL.

The principles of Physiological and Biological Chemistry; in brief, a course dealing with the chemical side of Physiology. A laboratory fee of fifteen dollars is charged for this course.

\*C 33 *Physiology of Nutrition.* 3 hrs. 2d half-year,  
*to count as 1 hr. for the year.*

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† May count as of C grade for the classes of 1909 and 1910.

§ May count as of A grade for the classes of 1909 and 1910.

‡ By Sophomores this course may be taken only outside of the required fifteen hours.

**Professor CHITTENDEN.**

A course of lectures, recitations, and demonstrations, dealing primarily with the physiology of secretion, digestion, absorption, excretion, metabolism, and other general questions bearing on the subject of animal nutrition.

C 35 *Physiology of Physical and Nervous Functions.* 5 hrs.,  
to count as 3 hrs.

**Assistant Professor HENDERSON.**

Recitations, reports by the students on special topics in the literature, and laboratory work on muscle-nerve, nervous system, special senses, circulation, and respiration.

D 37 *Physiological Chemistry.* 13 hrs., to count as 7 hrs.

**Professor MENDEL.**

A laboratory course, supplemented by demonstrations and recitations. The course is open only to those who have some knowledge of elementary Analytical and Organic Chemistry and of elementary Physiology or general Biology.

**PATHOLOGY AND BACTERIOLOGY**

39† *Pathology and Bacteriology* [after C 25].

[Seniors.] 13 hrs., to count as 7 hrs.

**Professor BARTLETT.**

Bacteriological technique, the cultural characteristics of common bacteria, and bacterial lesions are first studied; followed by general and special Pathology, including the study of both gross and microscopic lesions. (Separate examinations in Bacteriology and Pathology.)

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† May count as of C grade for the classes of 1909 and 1910.

### (3) PHILOSOPHY, EDUCATION, HISTORY, AND THE SOCIAL SCIENCES

#### XXI. PHILOSOPHY

Courses A b<sub>1</sub>, A b<sub>3</sub>, and A b<sub>5</sub> are all open to Sophomores, but A b<sub>1</sub> and A b<sub>3</sub> may not both be taken in Sophomore year. Both A b<sub>1</sub> and A b<sub>5</sub>, or both A b<sub>3</sub> and A b<sub>5</sub>, may be taken in Sophomore year and counted toward the sixty hours required for graduation, but only one of them may be counted as part of the fifteen hours required for Sophomore year. A b<sub>3</sub> may be taken by Sophomores only as a single three-hour course, but Juniors and Seniors may take either part (*a* or *b*) separately.

Special attention is called to the combination of courses A b<sub>5</sub> and B 15 as a minor in Psychology which should be taken by students who are preparing for the Yale Medical School. The combination A b<sub>5</sub> and B 19 is recommended to those who are preparing to teach.

For courses in *Plato* and *Plato and Aristotle*, see also Greek C 13 and C 19. For *English Philosophical Literature* and *The Philosophy of the English Poets*, see English C 53 and C 55.

A b<sub>1</sub> *History of Philosophy* [counted as a B course if taken after A b<sub>5</sub>].

[Sophomores,† Juniors, and Seniors.] 3 hrs.

Professor BAKEWELL.

The aim is to familiarize the student with the fundamental problems and categories of philosophy, and to prepare him to face present-day problems from the vantage-ground of the history of philosophic thought.

A b<sub>3</sub> *Logic and Elements of Philosophy* [counted as a B course if taken after A b<sub>5</sub>].

[Sophomores,† Juniors,† and Seniors.†] 3 hrs.

Professor DUNCAN.

*a Logic.* 3 hrs. 1st term, *to count as 1 hr. for the year.*

The elements of logic, deductive and inductive, with especial

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† See the statement at the head of this group (XXI).

attention to the nature of reasoning, the conditions of proof, and the principles of science.

*b Elements of Philosophy.* 3 hrs. 2d term,  
to count as 2 hrs. for the year.

An introductory exposition of the problems of general philosophy and an examination of the merits of the solutions of these problems offered by the different schools of thought (Materialism, Idealism, etc.).

A b5 *Psychology* [counted as a B course if taken after A b1 or A b3].

[Sophomores, Juniors, and Seniors.] 3 hrs.

Professor JUDD, Assistant Professor ANGIER, and Dr. CAMERON.

A general introductory course. Lectures, one hour a week, by Professor Judd; quiz-exercises in small sections, two hours a week, under Professor Judd, Assistant Professor Angier, and Dr. Cameron.

7† *Æsthetics.* 2 hrs.  
Assistant Professor ANGIER.

Lectures and assigned readings on the fundamental problems of æsthetics, all of which center in the problem of the nature of beauty.

B 9a *Modern Idealism* [after A b1 or A b3]. 2 hrs.  
Professor BAKEWELL.

Discussion of recent expressions of idealistic philosophy, both in literature and in the systematic works of the philosophers.

B 9b *Modern Idealism* [after A b1 or A b3]. 3 hrs.  
Professor BAKEWELL.

The same as B 9a, except that additional readings are assigned and occasional conferences arranged for reports on such readings.

B 11 *Philosophical Systems.* 2 hrs.  
Professor DUNCAN.

A study of the principal modern philosophical systems from Descartes to the present day, with especial attention to the problems and conceptions relating to knowledge and to the theory of reality, and to the resulting philosophical schools and tendencies.

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† May count as of B grade for the classes of 1909 and 1910.

- B 13 *Experimental Psychology* [after A b5]. 3 hrs.  
Professor JUDD.

A laboratory course in which the student performs experiments and prepares full reports. Once a week there is critical discussion of the reports of the preceding week.

- B 15 *Physiological Psychology* [after A b5]. 3 hrs.  
Assistant Professor ANGIER.

Psychological phenomena in their relations to the sense-organs and the central nervous system, and the facts in anatomy and physiology which are necessary to show such relations. Lectures, demonstrations, prescribed readings and reports.

- B 17 *Ethics: Introductory Course*. 3 hrs.  
Assistant Professor HOCKING.

Evolution of the ethical consciousness ; the general theory of values ; the principles of duty and their most general applications ; the relations of ethics to law and religion ; the bearing of biology upon certain fundamental ethical problems.

- B 19 *Educational Psychology* [after A b5]. 2 hrs.  
Dr. CAMERON.

A course of lectures, demonstrations, and reports, dealing with psychological principles in their application to education.

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- C 21 *Platonic Idealism*. 2 hrs.  
Professor BAKEWELL.

The aim of this course is to give a constructive interpretation of the Platonic view of life, based upon the reading of all the more important dialogues, in Jowett's translation.

- [C 23 *Philosophical Criticism*. 2 hrs.  
Professor DUNCAN.

Reading and critical discussion of Kant's *Critique of Pure Reason* and *Prolegomena to any Future Metaphysics*, with especial attention to the problems of epistemology and metaphysics.

Omitted in 1908-09.]

- C 25 *Philosophy of Mind*. 2 hrs.  
Professor DUNCAN.

Beginning with the facts and laws established by empirical psychology, this course aims at the construction of a metaphysic of mind. James's *The Principles of Psychology* is read and its bearings on the topics treated in the course are discussed in detail.

C 27 *Advanced Laboratory Course in Psychology* [after B 13].  
4 or 6 hrs., to count as 2 or 3 hrs.

Professor JUDD, Assistant Professor ANGIER, and Dr.  
CAMERON.

A continuation of B 13, consisting of laboratory exercises, on which written reports are required.

C 29 *Philosophy of the State.* 2 hrs.  
Assistant Professor HOCKING.

A course of lectures on the sources, forms, and ends of political control, surveying the important types of political theory and aiming particularly to determine conditions for stability in democratic governments.

C 31 *Philosophy of Religion.* 2 hrs.  
Assistant Professor HOCKING.

Fundamental religious issues defined and solutions proposed; the bearing of the psychological and historical study of the religious consciousness upon the question of the truth of religion. Readings in the documents of religion and in modern works on the philosophy of religion.

\*C 33 *Psychological Readings* [after B 13, B 15, or B 19].  
[Seniors.] 2 hrs.

Dr. CAMERON.

A critical examination and comparison of the views of leading writers on the principles of psychology. For 1908-09 the chief texts are: Stout's *Analytic Psychology*, Wundt's *Outlines of Psychology*, and James's *Principles of Psychology*.

[\*D 35 *The Philosophy of Aristotle.* [Seniors.] 2 hrs.,  
Professor BAKEWELL.

A first-hand study of the philosophy of Aristotle. Critical reading of the *Categories* and parts of the *Psychology* and the *Metaphysics*.

Omitted in 1908-09.]

\*D 37 *Problems and Methods of Philosophy.* [Seniors.] 2 hrs.  
Professor BAKEWELL.

Development of the principles that underlie all rigorous philosophical procedure, followed by consideration of some of the more fundamental issues in contemporary philosophical discussions. Lectures, discussions, and theses.

\*D 39 *Principles of Logic.* [Seniors.] 1 hr.

## Professor DUNCAN.

A course treating of the more important problems, and including an examination of the assumptions and criteria of induction; with suggestions regarding the teaching of logic.

\*D 41 *Epistemology*. [Seniors.] 2 hrs.

## Professor DUNCAN.

A systematic course, both critical and constructive, in the philosophy of knowledge. All the important problems of epistemology are considered.

\*D 43 *Metaphysics*. [Seniors.] 2 hrs.

## Professor DUNCAN.

An advanced course, the aim of which is the construction of a consistent and tenable theory of reality.

\*D 45 *Psychological Theory and Methods*. [Seniors.] 4 hrs.,  
to count as 3 hrs.

## Professor JUDD, Assistant Professor ANGIER, and Dr. CAMERON.

An advanced course, intended primarily for graduates. A critical study of current psychological problems by means of lectures, readings with reports, and laboratory exercises.

D 47 *Ethical Seminary*. 2 hrs.

## Assistant Professor HOCKING.

A critical study of fundamental ethical concepts. For 1908-09 the subject is the English debate in the nineteenth century; Bentham, Mill, Spencer, Green, Bradley, Taylor.

## XXII. THEORY AND PRACTICE OF EDUCATION

The courses under this head are designed especially to meet the needs of students who expect to teach.

It is expected that courses will be given in this group in 1909-10 and thereafter.

For *Educational Psychology*, see Philosophy B 19.

## XXIII. HISTORY

All the courses in History, except A 1, B 3, B 5, B 7, and B 9, presuppose such a general knowledge of European History as would be acquired by successfully completing A 1. Students who have not passed A 1 must secure the permission of the instructor to take courses of B grade, except B 3, B 5, B 7, and B 9. Students who expect to do work of C or D grade in History should take A 1 in Freshman or Sophomore year.

For courses in *Physical and Commercial Geography*, *Geography of North America*, *Geography of South America*, *Geography of Asia*, and *Geographic Controls in History*, see Geological Sciences A 1, B 11, B 13, B 15, and C 33. For a course in *Colonization*, see Anthropology B 5. For various courses in *Economic History* and *Industrial History*, see the Economics and Law group (XXV).

A 1 *European History*. [All classes.] 3 hrs.,  
to count as only 2 hrs. for Juniors and Seniors.

Assistant Professor RICHARDSON, Mr. DURFEE, Dr. FITE,  
Mr. SCHUYLER, and Dr. MITCHELL.

Introductory to later courses. A general survey of European History from the fourth century through the nineteenth.

B 3 *Ancient Oriental Nations from the Earliest Times*. 2 hrs.  
Assistant Professor F. W. WILLIAMS.

A comprehensive survey of the beginnings of civilization and its development in the nations of antiquity, including Babylonia, Assyria, Egypt, Phœnicia, and Persia, constituting an introduction to the general study of history.

B 5 *Outline Survey of Ancient History* [with a course in  
Latin or in Greek or another course in History].  
1 hr.

Professor PERRIN.

Lectures, following manual-study, outlining such general features of ancient history, from the earliest civilization of the Euphrates to the Empire of Charlemagne, as are most helpful for the study of medieval history. Oriental history is presented only as a background and source for Greek and Roman history.



- [B 7 *History of Greece to the Roman Conquest.* 2 hrs.  
Professor PERRIN.

A detailed and systematic study of the political, intellectual, and artistic history of the ancient Hellenes, with suitable illustrations from their literature and monuments. Lectures, conferences, and recitations.

Omitted in 1908-09.]

- B 9 *The Roman Republic.* 2 hrs.  
Assistant Professor H. B. WRIGHT.

The history of Rome from the beginnings of the Republic to the accession of Octavius. Manual-study, supplemented by lectures; detailed study of a single leader or period from the sources (for the year 1908-09, Hannibal).

- B 11 *Medieval Asia and the Mohammedan Conquest* [after A 1 or with the consent of the instructor]. 2 hrs.  
Assistant Professor F. W. WILLIAMS.

History of western Asia from Alexander to the fall of Constantinople, embracing the earlier development of Christianity and the spread of Islam. Supplementary to the history of the Roman Empire and of medieval Europe.

- B 15 *The Renaissance and Reformation* [after A 1 or with the consent of the instructor]. 2 hrs.  
Assistant Professor RICHARDSON.

The Renaissance is treated purely as an intellectual movement. The Reformation is considered in its relations to all the larger problems of modern history.

- B 17 *Modern European History to 1789* [after A 1 or with the consent of the instructor]. 2 hrs.  
Assistant Professor RICHARDSON.

Considers such characteristic features of modern history as combined to produce the Europe of the French Revolution and a knowledge of which is essential to the understanding of the history of the nineteenth century. Not a repetition of A 1.

- B 19 *English Political History* [after A 1].  
[Sophomores, Juniors, and Seniors.] 3 hrs.  
Professor ADAMS, Dr. ROBINSON, and Dr. C. H. WALKER.

From the Saxon Conquest to the nineteenth century. The history of institutions is not studied; but care is taken to make clear the political conditions which influenced the growth of the constitution.

- B 21 *Modern European Governments* [after A 1 or with the consent of the instructor]. 2 hrs.

Dr. FITE.

A practical study of comparative contemporary politics, embracing Great Britain and Continental Europe. English cabinet government, its modifications on the Continent and its suitability to the United States; the European solution of municipal problems; etc.

- B 23 *The Expansion of European Settlements in America* [after A 1 or with the consent of the instructor]. 2 hrs.

Professor FARRAND.

The establishment of the various European colonies in America, their political and social development, and their expansion; including the causes of the independence of the United States and the growth of an American nation.

- B 25 *American History, 1781-1860* [after A 1 or with the consent of the instructor]. 2 hrs.

Professor FARRAND.

The establishment of independent government in America; the formation of the constitution; the development of political parties, with the main political issues prior to the Civil War.

- B 27 *American Constitutional History and Government* [after A 1 or with the consent of the instructor]. 2 hrs.

Professor C. H. SMITH.

A historical study of the Federal constitution, tracing the origin, development, and working of its principal features.

- [B 28 *History of South America, chiefly in the Nineteenth Century* [after A 1 or with the consent of the instructor]. 2 hrs. 1st half-year, to count as 1 hr. for the year.

Dr. H. BINGHAM.

A survey of the Spanish and Portuguese colonies and of the struggle for independence, followed by an outline study of the history of several representative states and of their relations to the United States and Europe.

Omitted in 1908-09.]

- B 29 *Modern Asiatic History* [after A 1 or with the consent of the instructor]. 2 hrs.

**Assistant Professor F. W. WILLIAMS.**

Text-books on India, China, and Japan during their intercourse with European nations; lectures on their earlier history and culture, and on the Russian advance into Asia; study of the present political and missionary status.

- B 31** *Japanese History* [after A 1 or with the consent of the instructor]. 2 hrs.

**Dr. ASAKAWA.**

A brief survey of the history and civilization of Japan before the coming of the Europeans, followed by a fuller account of her political, economic, and diplomatic evolution in modern times.

- C 32** *Early Middle Ages.* 2 hrs.

**Mr. DURFEE.**

A detailed study of the chief social and economical features of the late Roman Empire and of the Middle Ages to the time of Charlemagne.

- C 33** *History of Europe since 1789.* [Seniors.] 2 hrs.

**Professor A. M. WHEELER.**

Mainly political; introductory to European politics of our day.

- C 35** *English Constitutional History to the Present Time.*  
[Juniors† and Seniors.] 2 hrs.

**Professor ADAMS.**

The purpose of the course is to show how the Anglo-Saxon system of self-government arose, and how the chief features of the present English constitution took form. Of special value to those who intend to study law.

- C 37** *Latin America.* [Seniors.] 3 hrs.

**Dr. H. BINGHAM.**

An advanced course in the political, military, and industrial history of Latin America. Lectures; assigned readings; investigation and reports on special subjects; weekly individual conferences. A reading knowledge of Spanish is required.

- C 41** *The United States since 1860.* [Seniors.] 2 hrs.

**Professor C. H. SMITH.**

First half-year: a study of the Civil War. Second half-year: a study of the Reconstruction Period and of some of the important features of our recent history.

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† Open to Juniors only after B 19 and with the written consent of the instructor.

- C 43 *American Civil War.* [Seniors.] 2 hrs. 1st half-year,  
to count as 1 hr. for the year.

Professor C. H. SMITH.

This course is the first half of C 41.

- [C 45 *European Colonies in Asia and Africa.* [Seniors.] 2 hrs.  
Assistant Professor F. W. WILLIAMS.

Chiefly a research course in colonization in modern times. History of the acquisition, and examination of the administration, of existing colonies. Assigned subjects discussed in brief theses.

Omitted in 1908-09.]

- C 47 *Chinese Culture and Institutions.* [Seniors.] 2 hrs.  
Assistant Professor F. W. WILLIAMS.

A research and reading course, using as material for study assigned passages in books in the University Library dealing with the history, language, literature, government, arts, and economic and social condition of the Chinese Empire.

- C 49 *The History of Art, Thought, and Customs in Japan*  
[after B 31 or with the consent of the instructor].  
2 hrs.

Dr. ASAKAWA.

An attempt at an analysis of the interrelation of religion, philosophy, literature, art, customs, and manners, in different periods of Japanese history.

- D 51 *The United States since 1860.* [Seniors  
who are graduates of other colleges.] 2 hrs.

Professor C. H. SMITH.

This is a graduate course, open to Seniors who are graduates of other colleges. In scope it is essentially the same as C 41.

- \*D 53 *Methods of Historical Research and Criticism.*  
[Seniors.] 1 hr.

Professors ADAMS and FARRAND.

(1) A discussion of the principles of historical criticism. Several typical problems of internal and external criticism are examined by the class and thoroughly analyzed. (2) Practical exercises, conducted by Professor Adams, in the study of selected historical documents.

## THE SOCIAL SCIENCES (GROUPS XXIV, XXV)

## XXIV. ANTHROPOLOGY

The basis of this group is *Physical and Commercial Geography* (Geological Sciences A 1), which is to be considered the regular A course in Anthropology. Furthermore, Economics and Law A 1 (*Elementary Economics*) and C 27 (*Economic History*) may be counted as A and C courses, respectively, in this group.

For *Organic Evolution*, see Geological Sciences B 17 and Biological Sciences 3.

B 1 *Anthropology*. [Juniors.] 2 hrs.  
Professor KELLER.

Introductory to course C 7. Text-books on anthropology and ethnography; lectures explanatory of the text-books and on the doctrine of evolution, with its application to man and human society; environmental influences, etc.

B 3 *Transportation Systems*. 2 hrs.  
Assistant Professor BISHOP.

A historical treatment of transportation systems: their adaptation to the life-conditions of societies upon various stages of economic development; trails, roads, canals, ocean-routes, etc. Text-books, lectures, and reports.

B 5 *Colonization*. 2 hrs.  
Dr. BOGGS.

Colonization, ancient, medieval, and modern, from the standpoint of the science of society. British and French colonization are discussed in lectures; for the rest Keller's *Colonization* is used as text-book.

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C 7 *The Science of Society*. [Seniors.] 2 hrs.  
Professor SUMNER.

An outline, by text-book and lectures, of the systematic science of society, based on ethnography and history. Course B 1 is necessary to give a fund of information about the facts on which the principles set forth in this course are based.

\*C 11 *Natural History of Man* [after B 1]. [Seniors.] 2 hrs.  
Professor FERRIS.

A more special treatment of man as an animal: his embryology and phylogeny, growth, vestigial organs, variations of

structure and their significance, body-mechanism and body-proportions, racial characteristics, general adaptation to environment, etc. Text-books, laboratory work, and lectures.

**\*C 13 *Natural History of Commerce.* 2 hrs.**

Assistant Professor BISHOP.

The nature of the flora and fauna of commerce, and the conditions of their natural distribution ; domestication, breeding, etc. Text-books, lectures, laboratory demonstrations, and reports.

**\*C 15 *Ethnology.* 2 hrs.**

Professor KELLER.

Primarily a course of investigation into the life of selected groups of uncivilized peoples : in 1908-09, the Negroid races. Ability to read easy French or German is required.

**\*C 17 *Historical Anthropology* [with or after C 7]. 2 hrs.**

Professor KELLER.

An analysis of the anthropological evidence of legend and folk-tale. For 1908-09 the subject is Homer. Ability to read the original is valuable, but is not required.

**[\*C 19 *Culture-History.* 2 hrs.**

Professor KELLER.

A critical reading of Lippert's *Kulturgeschichte* (2 vols., Stuttgart, 1887), (a) for its subject-matter, and (b) as a basis for informal instruction in research, scientific method, etc.

Omitted in 1908-09.]

**\*D 21 *The Self-Perpetuation of Society.* [Seniors.] 2 hrs.**

Professor SUMNER.

This graduate course is open to selected students who have taken course B 1 with great credit or have otherwise shown preparation for the work required.

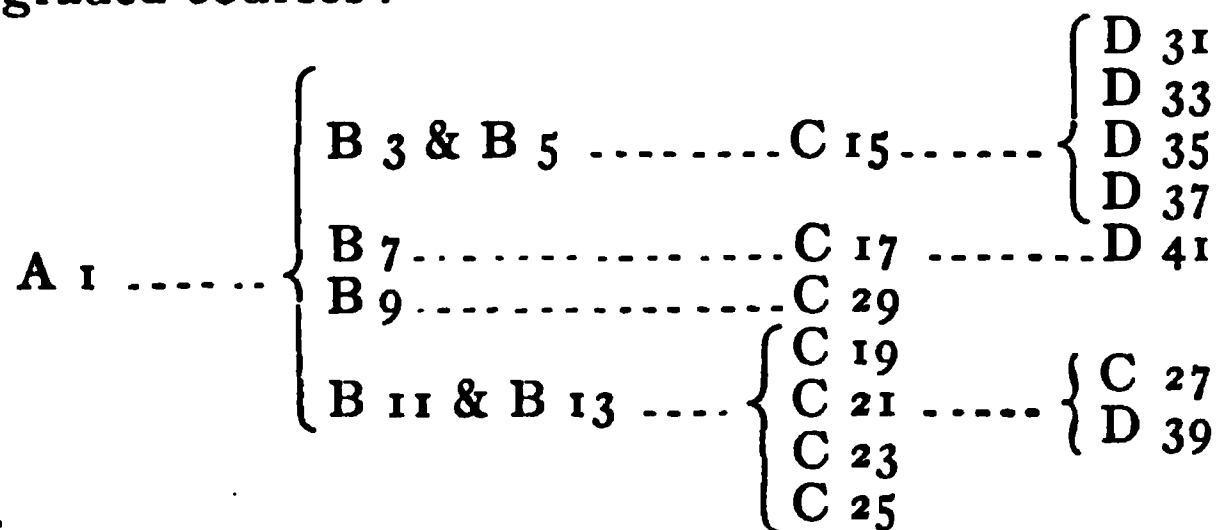
## XXV. ECONOMICS AND LAW

In addition to the courses in Law described below (*i. e.*, courses 51-61), the following courses in the Yale Law School are open to Seniors. They will be counted toward the attainment of the degree of LL.B. (as courses 51-61 will be), but not toward the attainment of the degree of B.A.

- a. Public Wrongs* [after or with 51, 57, and 59].
- b. Use of Law Library* (1st half-year) and *Study of Cases* (2d half-year) [after or with 51, 57, and 59].
- c. Pleading at Common Law* [after or with 51, 57, 59, and the above courses *a* and *b*].

For a course in *Roman Law*, see Latin C 13. For *Physical and Commercial Geography*, see Geological Sciences A 1. For *Philosophy of the State*, see Philosophy C 29. For *Early Middle Ages* (a study of social and economic features) and *English Constitutional History* (of special value to those who intend to study law), see History C 32 and C 35. For *Transportation Systems* and *Natural History of Commerce*, see Anthropology B 3 and C 13.

The following scheme shows the natural sequences of the graded courses :



With regard to distributing the number of hours of work evenly over the several parts of the year attention is called to the following possible combinations of courses that are given at the same hours, but at different and mutually exclusive parts of the year : B 3 and B 5 ; B 11 and B 13 ; C 25 and C 27 ; C 29, D 41, and 49.

A 1 *Elementary Economics* [may count as an A course in Anthropology].

[Sophomores, Juniors, and Seniors.] 3 hrs.

Professors EMERY, FISHER, and DAY, Assistant Professor F. R. FAIRCHILD, Dr. ZARTMAN, and Mr. H. G. BROWN.

Lectures, one hour a week, by Professor Emery; quiz-exercises in small sections, two hours a week, under Professors Emery, Fisher, Day, and Fairchild, Dr. Zartman, and Mr. Brown.

B 3 *Financial History of the United States.* 3 hrs. 1st term and Winter half-term, *to count as 2 hrs. for the year.*

Assistant Professor F. R. FAIRCHILD.

Especially the history of American currency, banking institutions and practices, the government revenue system, and the national debt.

B 5 *Banking.* 3 hrs. Spring half-term, *to count as 1 hr. for the year.*

Assistant Professor F. R. FAIRCHILD.

The principles of banking, with practical applications, and the banking systems of the leading nations, with special reference to banking and currency problems in the United States.

B 7 *Corporation Economics and Accounting.* 3 hrs.

Assistant Professor NORTON and Dr. ZARTMAN.

The anatomy of a corporation; its incorporation and organization; the formation and capitalization of industrial combinations; accounting; systems of administrative control; cost-accounts, from the standpoint of investors and business managers.

B 9 *American Social Conditions and Municipal Problems.*

3 hrs.

Assistant Professor BAILEY.

A study of immigration; the growth and concentration of population in cities, with the attendant dangers; the liquor question; the criminal; the negro; and the government of American cities.

B 11 *Economic History.* 3 hrs. 1st term, *to count as 1 hr. for the year.*

Professor DAY.

The history of agriculture, manufactures, and commerce in



Europe from the later Middle Ages to the nineteenth century, with reference to the conditions of the times and to modern economic, social, and political theories.

- B 13 *Economic Organization.* 3 hrs. 2d term,  
to count as 2 hrs. for the year.

Professor DAY.

Recent development of the industrial organization in Europe and the United States ; the national organization of agriculture, manufactures, and commerce in the leading countries of contemporary Europe.

- C 15 *Public Finance.* 2 hrs.

Assistant Professor F. R. FAIRCHILD.

A study of the principles of government expenditure, government revenue, and government debt, with special reference to the problems of taxation in the United States.

- \*C 17 *Railroads.* 2 hrs.

Assistant Professor NORTON.

Economic theory of railroad location ; financial and industrial problems ; railway consolidation and taxation ; the Interstate Commerce Commission and its relation to pooling and discrimination ; analysis of railroad reports and statistics.

- \*C 19 *Commerce and Commercial Policy in the Nineteenth Century.* [Seniors.] 2 hrs.

Professor EMERY.

A study of the growth of international trade and the changes in commercial policy, especially in the leading countries of Europe.

- [\*C 21 *Economic History of the United States, 1760-1860.*  
2 hrs. and occasionally a third hour,  
to count as 2 hrs.

Professor CALLENDER.

A critical study of the economic life of the American people from colonial times to the Civil War. Two hours of lectures per week and a third hour occasionally on Saturday for examination on reading.

Omitted in 1908-09.]

- [\*C 23 *Economic History of the United States, 1860-1900.*  
3 hrs.

Professor CALLENDER.

A continuation of the above course (C 21) along the same lines.

Omitted in 1908-09.]

- \*C 25 *Industrial History of the United States* [with or after C 21]. Reading and conferences, 1st term,  
to count as 1 hr. for the year.

Professor DAY.

Elementary investigations in the economic history of the United States, introductory to a knowledge of methods and sources. Individual work, in conference with the instructor.

- \*C 27 *Economic History, Advanced* [after C 21; may count as a C course in Anthropology].  
Reading and conferences, 2d term,  
to count as 2 hrs. for the year.

Professor DAY.

A course of reading, in individual conference with the instructor, covering the best secondary literature and a few selected sources in English.

- \*C 29 *Labor Problems*. 3 hrs. 1st term,  
to count as 1 hr. for the year.

Assistant Professor BAILEY.

The conflicts between labor and capital, and the methods employed to obtain industrial peace.

- \*D 31 *Currency and Prices*. 2 hrs.

Professor FISHER.

The relation of money and circulating credit to price-levels; methods of constructing index numbers; inflation and its application to the crisis of 1907; statistics and history of prices.

- [\*D 33 *Theory of the Distribution of Wealth*. 2 hrs.

Professor FISHER.

A study—theoretical, statistical, and historical—of the accumulation and dissipation of wealth among social classes.

Omitted in 1908-09.]

- \*D 35 *History of Economics, Part I*. 2 hrs.

Professor EMERY.

The history of economic ideas, with special reference to economic policy, from the Middle Ages to the middle of the nineteenth century. Lectures and readings in contemporary authors.

- [\*D 37 *History of Economics, Part II*. 2 hrs.

Professor EMERY.

A continuation of the above course (D 35), given in alternate years. It deals with the later reactions from the classical school, protectionism, socialism, and the historical school.

Omitted in 1908-09.]

- \*D 39 *Economic History of Europe.* 2 hrs. 2d term,  
to count as 1 hr. for the year.

Professor DAY.

A graduate course, open to specially qualified undergraduates. Problems, sources, and methods of European economic history.

- [\*D 41 *Statistical Analysis.* 3 hrs. Spring half-term,  
to count as 1 hr. for the year.

Assistant Professor NORTON.

Methods of fitting curves to series of statistics in analysis of relations among variables; the theory of correlation of two or more variables. The methods of Pearson, Yule, and Galton are discussed.

Omitted in 1908-09.]

- 43† *Elementary Statistics.* 2 hrs.

Assistant Professor BAILEY.

The principal statistics of sociology and economics are studied, and the manner of conducting a statistical investigation is explained.

- 45§ *Trade Statistics.* 2 hrs.

Assistant Professor NORTON.

The condition of trade viewed from the standpoint of (i) the international movement, (ii) bank clearings, (iii) the money supply, (iv) the outlook for the harvests, and (v) earnings of corporations. Crop forecasts; visible supplies; etc.

- 47† *Insurance.* 2 hrs.

Dr. ZARTMAN.

The purpose of insurance, computation of rates, different systems, policy conditions, company management, agency work, legal regulation, and other current problems connected with the business.

- 49† *Efficiency of Labor.* 3 hrs. Winter half-term,  
to count as 1 hr. for the year.

Professor FISHER.

The influence of habits and environment on the health and

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† May count as of A grade for the classes of 1909 and 1910.

§ May count as of C grade for the classes of 1909 and 1910.

‡ May count as of B grade for the classes of 1909 and 1910.

working power of the laborer. Special topics : hours of labor; child labor; sanitation; tuberculosis; intoxicants; amusements.

51† *Elementary Law.* 3 hrs.  
Professor WURTS and Assistant Professor CORBIN.

First half-year : instruction by Professor Wurts on the basis of Robinson's *Elementary Law* and Blackstone's *Commentaries*.

Second half-year : instruction by Assistant Professor Corbin on the basis of Anson *On Contracts* (2d American ed. by Huffcut) and the *Yale Cases on Contracts*.

53† *American Constitutional Law.* [Seniors.] 2 hrs.  
Professor S. E. BALDWIN.

Lectures, with Cooley's *Principles of Constitutional Law* and the *Yale Cases on Constitutional Law*. The origin and scope of both the national and the state constitutions, and the course of legislation and judicial decision serving toward their exposition, are considered.

55† *International Law.* [Seniors.] 2 hrs.  
Professor WOOLSEY.

Lectures, with written tests, upon the rules governing the intercourse of states, and upon certain topics in American diplomacy. Designed to explain international politics, to train in intelligent citizenship, and to assist legal practice.

57§ *Contracts* [after 51]. [Seniors.] 3 hrs.  
Assistant Professor CORBIN and Mr. EDGERTON.

Ten lectures on Partnership by Mr. Edgerton; a continuation of the study of the law of Contracts under Professor Corbin. Text-book : Williston's *Cases on Contracts*.

59§ *Torts* [after 51]. [Seniors.] 2 hrs.  
Professor WATROUS.

Recitations from Cooley *On Torts* (students' ed., 1907), with the study of cases, illustrative of the text, from Chase's *Cases on Torts* (2d ed.).

61§ *Evidence* [after 51]. [Seniors.] 2 hrs.  
Professor WURTS and Judge E. PECK.

Text-books : Reynolds's *Theory of Evidence* (first half-year, under Professor Wurts) and Thayer's *Cases on Evidence* (second half-year, under Judge Peck).

FOR YALE-COLUMBIA COURSES IN PREPARATION FOR FOREIGN SERVICE, see a later section.

† May count as of A grade for the classes of 1909 and 1910.

§ May count as of B grade for the classes of 1909 and 1910.

# SHEFFIELD SCIENTIFIC SCHOOL

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RUSSELL HENRY CHITTENDEN, PH.D., LL.D., Sc.D., *Secretary and  
Treasurer*

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LOUIS VALENTINE PIRSSON, M.A., *Professor of Physical Geology*

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ROBERT NELSON CORWIN, PH.D., *Professor of German*

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WILBUR CORTEZ ABBOTT, M.A., *Professor of History*

LOUIS DOREMUS HUNTOON, MN.E., M.A., *Professor of Mining and Metallurgy*

JOHN DUER IRVING, PH.D., *Professor of Economic Geology*

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HERMAN HAUPT CHAPMAN, M.F. (*Assistant Professor in the Yale Forest School*), *Instructor in Forestry*

WESLEY ROSWELL COE, PH.D., *Assistant Professor of Comparative Anatomy*

HARRY WARD FOOTE, PH.D., *Assistant Professor of Physical Chemistry*

WILLIAM EBENEZER FORD, PH.D., *Assistant Professor of Mineralogy*

HERBERT FOSTER, *Lecturer on Problems of Business Management.*

CLYDE CHEW GLASCOCK, PH.D., *Assistant Professor of German*

HENRY SOLON GRAVES, M.A. (*Director of, and Professor in the Yale Forest School*), *Professor of Forestry*

ALBERT GALLOWAY KELLER, PH.D. (*Professor of the Science of Society in Yale College*), *Instructor in Anthropology*

EDWIN HOYT LOCKWOOD, M.E., PH.D., *Assistant Professor of Mechanical Engineering*

FREDERICK BLISS LUQUIENS, PH.D., *Assistant Professor of Spanish*

JAMES FARLEY MCCLELLAND, M.N.E., *Lecturer on Mining Engineering*

WILLIAM CROSBY MARSHALL, M.E., C.E., *Assistant Professor of Drawing and Descriptive Geometry*

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GEORGE HENRY NETTLETON, PH.D., *Assistant Professor of English*

LEO FREDERICK RETTGER, PH.D., *Assistant Professor of Bacteriology and Hygiene*

HERBERT EUGENE SMITH, M.D. (*Dean of, and Professor in the Yale Medical School*), *Lecturer on Water Analysis*

JAMES WILLIAM TOUMEY, M.S. (*Professor in the Yale Forest School*), *Professor of Forestry*

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FRANK PELL UNDERHILL, PH.D. *Assistant Professor of Physiological Chemistry*

PERCY TALBOT WALDEN, PH.D., *Assistant Professor of Chemistry*

LYNDE PHELPS WHEELER, PH.D., *Assistant Professor of Physics*

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EARL GORDON BILL, PH.D., *Instructor in Mathematics*

LEON JACOB COLE, PH.D., etc., *Instructor in Zoology*

WILLIAM JAMES COMSTOCK, PH.B., *Instructor in Organic Chemistry*

GEORGE MACFELLEY CONWELL, PH.D., *Instructor in Mathematics*

CHARLTON DOWS COOKSEY, PH.B., *Instructor in Physics*

FRANK LAWRENCE COOPER, PH.D., *Instructor in Physics*

HAROUTUNE MUGURDITCH DADOURIAN, PH.D., *Instructor in Physics*

ARTHUR LYMAN DEAN, PH.D., *Instructor in Industrial Chemistry*

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CHARLES SHERMAN FARNHAM, C.E., *Instructor in Civil Engineering*  
MILTON STAHL GARVER, PH.D., *Instructor in French*  
WILLIAM ANTHONY GRANVILLE, PH.D., *Instructor in Mathematics*  
ARTHUR HARMOUNT GRAVES, PH.D., *Instructor in Botany*  
RALPH CHIPMAN HAWLEY, M.F. (*Instructor in the Yale Forest School*),  
*Instructor in Forestry*  
LAURENCE ILSLEY HEWES, PH.D., *Instructor in Mathematics*  
GEORGE SAMUEL JAMIESON, PH.D., *Instructor in Analytical Chemistry*  
CARL OSCAR JOHNS, PH.D., *Instructor in Chemistry*  
TREAT BALDWIN JOHNSON, PH.D., *Instructor in Chemistry*  
RICHARD SHELTON KIRBY, C.E., *Instructor in Sanitary Engineering*  
WILLIAM BARRI KIRKHAM, PH.D., *Instructor in Biology*  
BEVERLY WAUGH KUNKEL, PH.D., *Instructor in Biology*  
WILLIAM ALBERT LILLEY, JR., M.E., *Instructor in Mechanical Engineering*  
WILLIAM RAYMOND LONGLEY, PH.D., *Instructor in Mathematics*  
GEORGE BLAKEMAN LOVELL, M.A., *Instructor in German*  
HENRY NOBLE MACCRACKEN, PH.D., *Instructor in English*  
CHAMPION HERBERT MATHEWSON, PH.D., *Instructor in Chemistry and Metallography*  
ALFRED ARUNDEL MAY, M.A., *Instructor in English*  
HERBERT BRINKERHOFF NORTH, M.E., *Instructor in Drawing*  
CLARENCE CURTISS PERRY, PH.B., *Instructor in Physics and Steam Engine*  
FREDERICK ERASTUS PIERCE, PH.D., *Instructor in English*  
CHAUNCEY BREWSTER RICE, PH.D., *Instructor in Applied Electricity*  
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HERBERT LEE SEWARD, M.E., *Instructor in Shop Visiting and Drawing*  
WILLIAM KENT SHEPARD, PH.D., *Instructor in Mechanics*  
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FREEMAN WARD, PH.D., *Instructor in Geology and Mineralogy*  
LORANDE LOSS WOODRUFF, PH.D., *Instructor in Biology*



## ASSISTANTS

SAMUEL JOHN BERARD, PH.D., *Assistant in Descriptive Geometry and Machine Design, and Assistant Librarian*

WALTER MINOR BRADLEY, PH.D., *Assistant in Mineralogy*

CONSTANTINE MUGURDITCH CONSTANTIAN, B.A., PH.B., *Laboratory Assistant in Chemistry*

FRED ENGELHARDT, PH.B., *Laboratory Assistant in Physics*

GEORGE EDWARD GAGE, M.A., *Laboratory Assistant in Bacteriology*

HERBERT HARTLEY GUEST, PH.B., *Laboratory Assistant in Chemistry*

GEORGE FREDERICK GUNDELFINGER, PH.B., *Assistant in Mathematics*

JOHN DEAN HOLM, M.S., *Laboratory Assistant in Mining and Metallurgy*

ISRAEL SIMON KLEINER, PH.B., *Assistant in Physiological Chemistry*

CLARENCE MOORE KNOX, PH.B., *Assistant in Drawing*

WILLIAM HARDING LONGLEY, B.A., *Laboratory Assistant in Biology*

JOHN FRANKLIN LYMAN, B.S., *Laboratory Assistant in Biology*

DAVID FORD MCFARLAND, M.S., *Assistant in Chemistry*

KENNETH GERARD MACKENZIE, PH.B., *Laboratory Assistant in Chemistry*

EDWIN CYRUS MILLER, B.A., *Assistant in Botany*

GEORGE ELWOOD NICHOLS, B.A., *Assistant in Botany*

JOSEPH EZEKIEL POUGE, JR., M.S., *Laboratory Assistant in Mineralogy*

JOSEPH CHAPPELL RAYWORTH, M.A., *Assistant in Mathematics*

WILLIAM CUMMING ROSE, B.S., *Laboratory Assistant in Physiological Chemistry*

HENRY DEWITT SMITH, PH.B., *Laboratory Assistant in Mining and Metallurgy*

THOMAS GODDARD WRIGHT, M.A., *Assistant in English Composition*

## OTHER OFFICERS

GEORGE MERWIN BEERS, *Clerk in the Treasurer's Office*

JAMES READE HUTCHINSON, *Assistant Clerk in the Treasurer's Office*

JANE A. FORBES, *Clerk in the Registrar's Office*

MARY M. MAYER, *Private Secretary to the Director*

RICHARD LEONARD LOVELL, PH.B., *Secretary of the Young Men's Christian Association of the Sheffield Scientific School*

JOHN E. MOXLEY, *Machinist*

JOHN MAUTTE, *Engineer*

HARRY K. LOCKARD, *Engineer*

## **GENERAL STATEMENT OBJECTS**

THE SHEFFIELD SCIENTIFIC SCHOOL is devoted to instruction and researches in the mathematical, physical, and natural sciences, with reference to the promotion and diffusion of science, and also to the preparation of young men for such pursuits as require special proficiency in these departments of learning. Instruction is also given in French, German, Spanish, English, History, Anthropology, Economics, and Political Science. The Sheffield Scientific School is one of the Departments of the University, like the Law, Medical, Theological, and Art Schools, having its separate funds, buildings, teachers, and regulations, but governed by the Corporation of Yale University, which appoints the professors and confers the degrees. It is, in part, analogous to the Academical Department, or College, and, in part, to the Professional Schools.

The instruction is intended for two classes of students:—

I.—Graduates of this and other universities or colleges, and other persons qualified for advanced or special scientific study.

II.—Undergraduates who desire a training, chiefly mathematical and scientific, in less part linguistic and literary, for higher scientific studies, or for various other occupations to which such training is suited.

### **HISTORY AND ORGANIZATION**

The School was commenced in 1847. In 1860, a convenient building and a considerable endowment were given by Joseph E. Sheffield, of New Haven, whose name, at the repeated request of the Corporation of Yale College, was subsequently attached to the foundation. Mr. Sheffield afterwards frequently and munificently increased his original gifts.

In 1863, by an act of the Connecticut Legislature, the national grant for the promotion of scientific education (under the congressional enactment of July, 1862) was

given to this department of Yale University, which thus became the College of Agriculture and the Mechanic Arts for Connecticut. By an act of the State Legislature in 1892 this was revoked and the special relations of the School to the State created by the act of 1863 were terminated.

In 1871, at the request of Mr. Sheffield, certain of the professors in the Sheffield Scientific School and other friends of the institution organized themselves into a body corporate, under the laws of the State of Connecticut, with the following articles of incorporation :

KNOW ALL MEN BY THESE PRESENTS: That we, the undersigned, George J. Brush, Daniel C. Gilman, William P. Trowbridge, and John S. Beach, all of the city and county of New Haven, in the state of Connecticut, William Walter Phelps, of the city, county and state of New York, and Charles J. Sheffield, of the city of Cleveland, in the county of Cuyahoga, and state of Ohio, do hereby associate ourselves under the provisions of the statute laws of the state of Connecticut as a body politic and corporate for scientific purposes, and the following are our articles of association ; to wit :

ARTICLE 1. The name of said corporation shall be THE BOARD OF TRUSTEES OF THE SHEFFIELD SCIENTIFIC SCHOOL.

ARTICLE 2. The object and purpose of said corporation is to promote the study of physical, natural and mathematical sciences in the college or school of science known as the Sheffield Scientific School, located at said city of New Haven.

ARTICLE 3. The property and affairs of said corporation shall be managed and conducted by a board of nine directors,—of whom by virtue of their respective official positions there shall be three, consisting of the Governor of the state of Connecticut, the President of Yale College and the Chairman of the Trustees of the Peabody Museum of Natural History in Yale College ; and the other six directors shall be the above named associates who shall hold said office until others are chosen in their stead ; and whenever a vacancy shall arise from any cause among said six directors, a successor shall be chosen by all the remaining members of said board, but at least three of said directors, not including any of the ex-officio trustees, shall at all times be professors in the said Sheffield Scientific School, and the other elected directors shall be persons especially interested in promoting the welfare of the Sheffield Scientific School, and shall be chosen without regard to their residence or non-residence in the state of Connecticut, and without regard to their ecclesiastical preferences.

Dated at New Haven, Connecticut, Feb. 8, 1871.

This incorporation of the Board of Trustees of the Sheffield Scientific School was confirmed by Act of the General Assembly in 1882.

#### ACT OF INCORPORATION

*Resolved by this Assembly :*

SECTION 1. That the Board of Trustees of the Sheffield Scientific School shall be and remain a body politic and corporate under the provisions herein contained, and shall have the right to and enjoy all the rights, powers, and privileges herein granted, and shall own and possess all the estate and assets now vested in said corporation, or that may hereafter accrue to it as devisee or legatee, to the same extent in all respects as if said corporation had been originally organized under a charter containing the provisions of this act.

SEC. 2. The object and purpose of said corporation is, and shall continue to be, to promote the study of physical, natural, and mathematical sciences, in the college or school of science known as the Sheffield Scientific School, located at the city of New Haven, and to that end the said corporation may do all acts necessary and proper for the well ordering of its affairs, and may receive, hold, or convey any estate, real or personal, that may be conveyed to it, or that it now possesses, and said property, while so used for the promotion of science, shall be free from taxation.

SEC. 3. The property and affairs of said corporation shall be managed and conducted by a board of nine directors, of whom, by virtue of their respective official positions, there shall be three, consisting of the Governor of the state of Connecticut, the President of Yale College, and the Chairman of the Trustees of the Peabody Museum of Natural History in Yale College, and whenever a vacancy shall arise from any cause among the other six directors, a successor shall be chosen by all the remaining members of said board, but at least three of said directors, not including any of the ex-officio trustees, shall at all times be persons who are or who have been professors in the said Sheffield Scientific School, and the other elected directors shall be persons especially interested in promoting the welfare of the Sheffield Scientific School, and shall be chosen without regard to their residence or non-residence in the state of Connecticut, and without regard to their ecclesiastical preferences.

SEC. 4. The present officers of said corporation shall continue in their offices respectively until others shall be chosen under the provisions of this act.

SEC. 5. A majority of said directors, who are resident in New Haven, when met shall constitute a quorum.

SEC. 6. The directors, for the time being, shall have power to fill any vacancy which may happen in their board by death, resignation, or otherwise ; they may appoint and employ such officers as they may deem necessary or desirable to effectuate the purpose and object above mentioned, and may make such by-laws and rules and regulations for the government and management of the affairs of said corporation as they deem reasonable and necessary : provided the same be not inconsistent with the laws of this state or of the United States, and the present by-laws of said corporation shall remain in force until they be altered or amended.

In addition to the bequests made by Mr. Sheffield, numerous liberal gifts have been received, for the endowment of the School and the increase of its buildings and collections, by which the facilities of the institution have been greatly enlarged. Special mention is made of some of these gifts in the descriptions of buildings, apparatus, collections, scholarships and prizes.

The Governing Board consists of the President of the University and the professors who are permanently attached to the School. There are many other instructors associated with them, some of whom are connected with other departments of the University.

#### **INSTRUCTION FOR GRADUATE AND SPECIAL STUDENTS**

Students who have completed undergraduate courses of study, here or elsewhere, may avail themselves of the facilities of the School for more special professional training in the natural and physical sciences and their applications, gaining in one, two, or three years the degree of BACHELOR OF PHILOSOPHY, or in two additional years of engineering study that of CIVIL ENGINEER, MECHANICAL ENGINEER, or that of MINING ENGINEER. (See pp. 216 to 219.)

Those who desire to engage in studies of a less exclusively technical character, may become candidates for the degree of MASTER OF SCIENCE or DOCTOR OF PHILOSOPHY. The instruction in such cases will be adapted to the particular needs and capacities of each student, and may be combined with that given by instructors in other departments of the University.

The degree of MASTER OF SCIENCE is conferred upon graduates of this or other universities, of two years' standing or upwards, who have taken their first degree in science, and who have pursued successfully a higher course of study in science under the direction of the Governing Board. Such a course will involve at least one year of resident graduate study, followed by an examination and the presentation of a satisfactory thesis in some department of science. A committee of the Faculty is appointed (consisting for the present year of Professors Chittenden and Richards) to whom all candidates for this degree must submit their proposed courses of study for approval before the end of October of each year. The fee for graduation is ten dollars.

The degree of DOCTOR OF PHILOSOPHY is conferred upon those students (of either sex) who show the results of resident graduate work by a thesis giving evidence of high attainment and power of investigation, and by passing an examination on studies whose grade and amount meet the approval of the Faculty. Under ordinary circumstances two or more years of work in residence is required, but in exceptional cases work of equal grade at another University may take the place of a year's residence here. Whenever the course of undergraduate study has been less than four years, three years of graduate work will be required. The thesis must be deposited at the Library for public inspection not later than May 1. A good knowledge of Latin, German, and French is required in all cases, unless, for some very exceptional reasons, the candidate be excused by the Faculty. Evidence of sufficient attainments in these languages must be presented at least two years before the degree is given. The fee for graduation is ten dollars.

A detailed statement of the graduate instruction of the University, including more than 500 courses, is printed in a separate pamphlet, and may be had on application to the Secretary of the University. The principal courses offered

in the Sheffield Scientific School are given by the following instructors:

Professor RICHARDS, in Mechanical Engineering.

Assistant Professor LOCKWOOD, in Thermodynamics and Mechanics of Heat Engines.

Dr. SHEPARD, in Mechanics of Materials.

Professor DuBOIS, in Civil Engineering.

Assistant Professor BARNEY, in Municipal and Sanitary Engineering.

Assistant Professor TRACY, in Graphic Statics.

Professor HUNTOON, in Mining and Metallurgy.

Professor HASTINGS, Assistant Professors BEACH, L. P. WHEELER, and Dr. DADOURIAN, in selected subjects in Physics, and guidance in laboratory work.

Professor P. F. SMITH, Dr. GRANVILLE, Dr. LONGLEY, Dr. HEWES, Dr. BILL, and Dr. CONWELL, in Advanced Mathematics.

Professor MIXTER, in Chemical Physics.

Professor WELLS, in Analytical Chemistry, Inorganic Chemistry, and Metallurgy.

Dr. MATHEWSON, in Metallography.

Professor H. L. WHEELER, Mr. COMSTOCK, and Dr. JOHNSON, in Organic Chemistry.

Assistant Professor FOOTE, in Physico-Chemical Measurements, Electro-Chemistry, and Physical Chemistry.

Dr. JAMIESON, in Sanitary Water Analysis.

Dr. DEAN, in Industrial Chemistry.

Assistant Professor FORD, in Mineralogy and Crystallography.

Professor PIRSSON, in Physical Geology and Petrology.

Professor IRVING, in Economic Geology.

Dr. SURFACE, in Geography.

Professor HARRISON and Assistant Professor COE, in General Biology, Comparative Anatomy, Embryology, and Cytology.

Dr. WOODRUFF, in General Physiology of the Lower Organisms, and Protozoology.

Dr. COLE, in Invertebrate Zoology.

Dr. KUNKEL, in Organic Evolution.

Dr. KIRKHAM, in Vertebrate Embryology.

Professor SCHUCHERT, in Invertebrate Paleontology.

Professor CHITTENDEN, Professor MENDEL, and Assistant Professor UNDERHILL, in Physiology, Physiological Chemistry, and Toxicology.

Professor EVANS and Dr. GRAVES, in Structural and Systematic Botany with special reference to the Microscopic Anatomy of Phanerogamous and Cryptogamous Plants.

Assistant Professor RETTGER, in Bacteriology and Hygiene.

Professor CALLENDER, in Applied Economics.

Professor ABBOTT, in History.

Professor CROSS, Assistant Professors NETTLETON and CANBY, and Dr. MACCRACKEN, in English Literature.

Professor CORWIN and Assistant Professor GLASCOCK, in the German Language and Literature.

Professor CLARKE, in French Phonetics and Literature.

Assistant Professor LUQUIENS, in French and Spanish Literature.

Dr. THORSTENBERG, in Swedish.

#### REQUIREMENTS FOR THE DEGREES OF CIVIL, MECHANICAL, AND MINING ENGINEER

Students who have taken the degree of Bachelor of Philosophy may obtain the degree of CIVIL, MECHANICAL, or MINING ENGINEER at the end of two academical years, by pursuing the following higher courses of study and professional training.

##### THE DEGREE OF CIVIL ENGINEER

The course of study for this degree will comprise:—

1. Scientific Computation, Problems in the Calculus, Harmonic Analysis, each course of one hour per week both terms; or the equivalent of these courses.
2. Mechanics applied to Engineering.
3. Practical Astronomy, with use of instruments, computations, etc.
4. Construction and Design.
5. Selected subjects in Civil Engineering.
6. Preparation of Theses on special subjects in Engineering.



The course will occupy two years. During one of these years candidates may, with the consent of the Professor of Civil Engineering, engage in professional practice.

To secure the requisite amount of professional knowledge and practice, the candidate will be required to furnish a comprehensive report of the results of an examination into the existing condition of some special line of constructive art ; or to present proper evidence that he has had actual charge in the field, for several months, of construction or surveying parties, or has held some responsible position deemed equivalent to this.

A design must also be submitted of some projected work, based upon data obtained by the candidate, and comprising all the requisite calculations, and the necessary detailed drawings, accompanied by specifications.

The fee for graduation is five dollars.

#### THE DEGREE OF MECHANICAL ENGINEER

The course of study during the fourth and fifth years of the Mechanical Engineering Course, leading to the degree of Mechanical Engineer, is a graduate course for students who have obtained a Bachelor's degree in a Mechanical Engineering course and have given evidence, either by satisfactory record or special proficiency along certain lines, of their adaptability for the advanced work.

These graduate years of study will comprise :—

1. Scientific Computation, Elementary Differential Equations, Problems in the Calculus ; or the equivalent of these courses.
2. Construction of Machines. Designs.
3. Thermodynamics and Mechanics of Heat Engines.
4. Mechanics of Materials.
5. Preparation of Theses on special subjects in Mechanical Engineering.

During one of these years candidates will be permitted to employ such portion of their time as may be deemed advisable or necessary in the examination of engineering works and manufacturing establishments, and may also have the privilege of entering upon professional practice, provided it is done with the consent of the Professor of Mechanical Engineering, and under such circumstances

as shall appear to him to be favorable to professional progress.

An elaborate thesis on some professional subject, with an original design, or project, accompanied by proper working drawings, will be required at the end of the final year.

The fee for graduation is five dollars.

#### THE DEGREE OF MINING ENGINEER

The full course for the degree of Mining Engineer consists of three years of undergraduate study and two additional years of graduate work. A synopsis of the undergraduate work will be found on p. 246.

During the two graduate years the course of study will comprise:—

1. Railroad and Mine Surveying.
2. Courses in Mechanical Engineering.
3. Courses in Electrical Engineering.
4. Metallurgy.
5. Selected courses in Geology and Mineralogy.
6. Selected courses in Mining and Ore dressing.
7. Preparation of Thesis.

The student will have the choice in these two years of study of a course in which the emphasis is laid on the general engineering side of mining, thus fitting him especially for mine management ; or of one in which greater stress is laid on geological studies, thus fitting him especially for mine examination or geological survey work. The subjects, however, which form the foundation of a mining education are the same in both alternatives, so that the selection of either will still enable the student to gain a thorough working knowledge of the principles of the other.

The student will be required during a portion of the last year of the course to engage in active professional work with a view to studying methods and gathering material for an original thesis. Such work may consist, if the candidate has selected the engineering alternative,

of an apprenticeship in some mine, milling plant or metallurgical works ; or if he has selected the geological alternative, of work upon some geological survey or mine examination.

The fee for graduation is five dollars.

#### REQUIREMENTS FOR ADMISSION OF SPECIAL STUDENTS

Those students who, being fully qualified, desire to pursue particular studies without reference to the obtaining of a degree, are received in most of the departments of the School as special students ; not, however, in the Course in Selected Studies in Language, History, and the Natural and Social Sciences, nor in the Freshman class. It should be distinctly understood that these opportunities are designed especially to aid those who, having received a sufficient preliminary education elsewhere, desire to increase their proficiency in special branches.

To gain admission to such a special course of study, it is necessary for the student to show, either by examination or by submitting credentials from other scientific schools or colleges, that he has the preliminary training requisite for the successful pursuit of the course chosen. The plan of studies elected must meet with the approval of the professor in charge of the course. A special student may at any time become a regular student and candidate for a degree, by making up all deficiencies in the requirements for admission and in the required course subjects.

#### REQUIREMENTS FOR ADMISSION TO THE FRESHMAN CLASS

##### SUBJECTS OF EXAMINATION\*

*N. B. The Committee on Admission reserves the right to reject any candidate whose papers are notably defective in spelling, grammar, idiom, and punctuation.*

All candidates for admission to the Freshman class are examined in the following subjects :†

\* Specimens of the Examination papers may be obtained of the Registrar.

† Certificates of the College Entrance Examination Board are accepted so far as they cover the requirements here set forth. (See p. 229.)

1. *English Grammar* – Whitney's *Essentials of English Grammar*, or an equivalent.
2. *English Literature (A)*.

The candidate should read the books prescribed below with a view to understanding and enjoying them. The examination is designed especially to test the candidate's power of clear and accurate expression, but calls also for a reasonable degree of familiarity with the substance of the books read. The form of the examination is usually the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number set before him in the examination paper. Beginning with 1910, the candidate will also be required to write upon one or more subjects of ordinary experience or knowledge, not taken from the prescribed books.

The books set for this part of the examination are as follows:

For the preliminary examination in 1909: Shakespeare's *Merchant of Venice* and *Julius Cæsar*; the Sir Roger de Coverley Papers in *The Spectator*; Franklin's *Autobiography*; Scott's *Ivanhoe* and *Lady of the Lake*; either Irving's *Sketch Book* or Hawthorne's *House of the Seven Gables*; Macaulay's *Lays of Ancient Rome*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; either George Eliot's *Silas Marner* or Dickens's *Tale of Two Cities*.

For the preliminary examination in 1910: Shakespeare's *Merchant of Venice* and *Julius Cæsar*; the Sir Roger de Coverley Papers in *The Spectator*; either Franklin's *Autobiography* or Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe* and *Lady of the Lake*; Hawthorne's *House of the Seven Gables*; Macaulay's *Lays of Ancient Rome*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; either George Eliot's *Silas Marner* or Dickens's *Tale of Two Cities*.

For the preliminary examination in 1911: Shakespeare's *As You Like It* and *Julius Cæsar*; Franklin's *Autobiography*; Goldsmith's *Deserted Village*; Dickens's *Tale of Two Cities*; George Eliot's *Silas Marner*; Irving's *Sketch Book*; Scott's *Lady of the Lake*; Byron's *Mazeppa* and *Prisoner of Chillon*; Macaulay's *Lays of Ancient Rome*.

3. *English Literature (B)*.

The candidate should read the books prescribed for this part of the examination with the view of acquiring such knowledge of their contents as will enable him to answer specific questions with accuracy and some detail. The examination tests also the candidate's ability to express his knowledge with clearness and accuracy. It is not designed, however, to require minute drill in difficulties of verbal expression, unimportant allusions, or technical details.

The books set for this part of the examination are as follows:

For the final examinations in 1909, 1910, and 1911: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; either

Burke's *Speech on Conciliation with America*, or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

For the final examination in 1912: Shakespeare's *Macbeth*; either Milton's *L'Allegro*, *Il Penseroso*, and *Comus* or Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *Passing of Arthur*; either Burke's *Speech on Conciliation with America* or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

#### NOTES ON THE ENGLISH REQUIREMENTS.

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure these ends, training in grammar and the simpler principles of rhetoric, and the writing of frequent compositions, are as essential as the study of the books specified above.

No candidate is accepted in either English (*A*) or English (*B*) whose work is notably defective in point of spelling, capitalization, punctuation, idiom, or division into paragraphs. An entrance condition in English (*A*) is removed only upon evidence of marked improvement in the ability to write English correctly.

The lists in English (*A*) for 1909, 1910, and 1911, are selected from the list adopted by the Conference on Uniform Entrance Requirements in English, at meetings held in New York City February 22, 1905, and February 22, 1908. Candidates may make other selections from that list, provided they notify the Registrar of the Sheffield Scientific School before February 1 of the calendar year in which the examination is to be taken.

4. *History of England*—The student should have some acquaintance with the leading facts of *English History* from the landing of Julius Cæsar (55 B. C.) down to the conclusion of Beaconsfield's ministry (1880). Special attention should be given to incidents from the Norman Conquest onwards. It is recommended that, so far as possible, the attention of the student be directed to the importance not only of the development of English government, but of English industry, and English literature. Montgomery, Larned, Andrews, Cheyney, or an equivalent.

In view of the importance of a knowledge of the History of England as a preparation for the study of English in Freshman year, no equivalent is accepted for this requirement.

5. *History of the United States* or *Roman History* or *Greek History*.

In *History of the United States*, a thorough acquaintance is expected with some one of the more recent text-books such as Johnston's *History of the United States*, revised edition,

Montgomery's *Students' American History*, Channing's *Students' History of the United States* or McLaughlin's *History of the American Nation*.

In *Greek History* the examination will cover the period to the death of Alexander (323 B. C.). Myers's, Botsford's, or Morey's *History of Greece*, or an equivalent.

In *Roman History* the student should be particularly familiar with the Roman Republic (509 B. C. to the death of Julius Cæsar), though he will be held responsible for some knowledge of the development of the Empire to the death of Augustus (14 A. D.). Myers's *Rome: its Rise and Fall*, or Morey's or Botsford's *History of Rome*, or an equivalent. In Greek and Roman history the importance of historical geography should not be overlooked.

The examinations in history will be framed to discourage hasty memorizing and to encourage careful preparation at the hands of teachers. Stress should be laid in preparation upon a knowledge of historical geography, and upon a clear understanding of the more salient dates and facts.

6. *Latin Grammar and Composition*—The examination in Latin Grammar will be based on connected passages taken from the first and second books of Cæsar's *Gallic War*. The exercises set for translation from English into Latin will involve the vocabulary and idioms of these two books.
7. *Cæsar* or *Cæsar and Nepos*—The first four books of Cæsar's *Gallic War*.

The first twelve of Nepos's *Lives*, as they appear in the Teubner edition, will be accepted as an equivalent for the third and fourth books of Cæsar. For the first and second books of Cæsar no equivalent is accepted.

8. *Virgil* or *Cicero*—The first three books of the *Æneid*. This requirement involves ability to scan Latin hexameters.

Cicero's orations against Catiline and for Archias may be offered in place of Virgil.

In order to allow preparatory schools still further freedom in arranging their courses of work, examination papers will be prepared on other equivalents of the texts mentioned above, provided application for a sufficient number of candidates be made to the Registrar of the Sheffield Scientific School before February 1.

9. *German* or *French*—Candidates will be required to translate at sight simple prose selections from German or French authors, and to have such a knowledge of grammar as will enable them to read the selections intelligently. This implies familiarity with the

declensions of nouns, adjectives, and pronouns, with the conjugation of verbs, and with the essential rules of syntax and word-order. The ability to translate simple sentences from English into German or French will also be requisite, as well as an intelligible pronunciation of the language offered.

10. *Algebra A, Elementary (through Quadratics)*—The four fundamental operations for rational algebraic expressions; factoring, determination of the highest common factor and least common multiple by factoring; fractions, including complex fractions and ratio and proportion; linear equations both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative. Quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities that can be solved by the methods of linear and quadratic equations; problems depending on quadratic equations; binomial theorem for positive integral exponents; formulas for the  $n$ th term and the sum of  $n$  terms of arithmetical and geometrical progressions, with applications.

11. *Algebra B, Advanced*—Permutations and combinations, limited to simple cases. Numerical equations of higher degree, and so much of the theory of equations with graphical methods as is necessary for their treatment, including Descartes's Rule of Signs and Horner's method, but not Sturm's functions or multiple roots.

A syllabus of the requirement in Advanced Algebra may be obtained from the Treasurer of the Sheffield Scientific School, New Haven, Conn., on payment of ten cents.

It is expected that candidates presenting themselves in Algebra will have covered all the subjects above specified. The examination, however, is especially designed to test the *thoroughness* of the candidate's training and preparation. Those questions, therefore, whose solution involves only the fundamental operations must be worked out rapidly and accurately.

Much time should be devoted to the statement and solution of problems, and the student should be taught the importance of the interpretation and verification of his results.

The required topics in Algebra are adequately treated in *Advanced Algebra* by H. E. Hawkes.

12. *Plane Geometry*—Demonstration of the theorems and constructions contained in any standard text, and solution of original propositions and problems.

The examination in this subject will test not only the candidate's acquaintance with the theorems of any standard text, but also his ability to solve original exercises and problems. Two hours are allowed for the examination, and it is expected that aptitude will be shown in attacking questions of reasonable difficulty. As much time as possible should be devoted in the student's preparation to originals. The student should learn that knowledge of Geometry means not merely familiarity with propositions proven in the text, but rather the possession of keenness and readiness in space perception as well as power to reason logically and deductively.

13. *Solid Geometry*—The usual text demonstrations, including the relations of planes and lines in space, the properties and mensuration of prisms, pyramids, cylinders and cones, the sphere and spherical triangle.

In selecting a text-book in Geometry, it is especially important that one be chosen which encourages and develops independent thought and work on the part of the student, and which does not reduce the study of the science to an exercise in memorizing. Knowledge of propositions and constructions is not the only aim of geometric instruction, but training in logical thinking and deductive reasoning as well. The student should acquire power in applying the methods which he has been taught to the solution of original exercises and problems. The examination is intended to test the power of the candidate in this respect, and also his acquaintance with the text.

14. *Trigonometry and Logarithms*—Fundamental definitions, properties and analytical theory of the trigonometric functions, with the usual formulæ; applications to the solution of simple problems, and, in particular, to the formal solution of plane oblique triangles. Theory and principles of logarithms (without the introduction of work involving infinite series), solution of right and oblique plane triangles, and of numerical problems in Algebra.

Preparation in Trigonometry should include exercises in applying the formulæ to a variety of reductions and transformations, and the solution of trigonometrical equations involving either direct or inverse functions. Of fundamental importance is a thorough drill in the reduction of functions of any angle to functions of an acute angle. Accuracy in results and neatness in the arrangement of computations are insisted upon.

The student should be familiar with the tables furnished at the examination. These are entitled *Four-Place Logarithmic Tables*, and may be obtained from the publishers, Henry Holt



& Company, New York City. The necessary formulæ for the solution of plane oblique triangles are given in these tables.

15. *Botany or Chemistry or Physics*—In *Botany* the requirements include a knowledge of the structure and of the more important physiological processes of flowering plants, together with matters pertaining to pollination and the dissemination of seeds. Leavitt's *Outlines of Botany*, or Bergen's *Foundations of Botany*, is recommended as a suitable aid in preparing for the examination. It is desirable that the candidate should have had some experience in the analysis of common flowering plants.

In *Chemistry* the requirement will involve (a) a knowledge of hydrogen, oxygen, the halogens, sulphur, nitrogen, phosphorus, arsenic, carbon, silicon, sodium, potassium, ammonium, calcium, barium, magnesium, zinc, mercury, silver, copper, tin, lead, iron, and aluminium, together with their simple compounds. This will include ability to describe the occurrence in nature of such substances, their simple physical properties, the more important or typical chemical changes in which they take part, the important methods of preparation and a knowledge of the common names; also, ability to describe accurately the phenomena observed in experiments and to make deductions from those observations.

(b) Ability to sketch and describe simple pieces of apparatus used in the laboratory.

(c) Ability to write equations of simple reactions and to make calculations of the quantities involved, atomic weights being supplied; also, ability to calculate volumes of gases from their weights or the reverse and to calculate the quantity per unit volume of a substance in solution from the density and percentage composition of the solution.

(d) Familiarity with the fact that elements combine in fixed ratios or multiples thereof, and a knowledge of the atomic theory; also, ability to apply the laws of Boyle, Charles, and Avogadro and to write equations representing the reactions by volume of the common gases and vapors.

It is strongly recommended that the preparation for this requirement should be by a course of class room and laboratory work in which particular emphasis is laid upon the systematic study of the elements in natural groups or by the use of Mendelejeff's classification. Fundamental principles, such as reduction, oxidation, the reaction of acids, bases, etc., should be given special attention, and the more important test reactions should be made familiar.

No candidate will be accepted in this subject unless he has

had a laboratory course. Every candidate must attach to his answer paper in chemistry a statement signed by his instructor of the work he has done in this subject.

In *Physics* the examination will be designed to test the candidate's familiarity with the general phenomena of mechanics, sound, light, heat, magnetism, and electricity, and his knowledge of the simpler laws governing these phenomena.

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#### DIVISION OF EXAMINATION

*Preliminary Examination*—Candidates are allowed to divide the examination between two *successive* years. For the *preliminary examination* the candidate may present himself at any regular examination in either June or September and may offer any five or more of the above mentioned subjects. At this examination, each candidate must submit a statement from his principal instructor specifying the subjects in which he is authorized to offer himself for examination.\* A *certificate of preliminary examination* will not be granted unless at least five subjects have been passed.

*Adding to preliminary credits*—Preliminary credits received in June cannot be used in obtaining a *final* certificate until the following year; but a candidate who has received a preliminary certificate at the June examination may, at the next September examination, add to the list of subjects credited thereon, provided he present satisfactory evidence of work done during the summer.

*Final Examination*—Final candidates, whether presenting themselves for the first time or for completing the credits not included in a certificate of preliminary examination, may take the examinations at any regular session. A final candidate who desires to postpone examination in any subject from June until September should submit with his request the authorization of his principal instructor. A *final* candidate who has been rejected in June may

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\* Blank forms for this purpose will be sent upon application to the Registrar of the Sheffield Scientific School, from whom the examination papers of June and September, 1908, may also be secured.

try the whole examination again in September of the same year.

#### TESTIMONIALS, ETC.

*Testimonials*—Candidates for final examinations must present satisfactory testimonials of character and scholarship, covering the *whole* of the school year preceding the examination. Students from other colleges must present certificates of dismissal in good standing.\*

*Deficiencies*—Students are admitted conditionally with certain deficiencies, if their record of examinations is such as to make it appear that they are fitted to pursue the courses of the School successfully. The number of conditions which shall exclude a candidate from admission is not fixed. The record of each candidate is considered with a view to deciding whether his preparation is adequate, and whether the deficiencies are of such a nature as to admit of their being made up within the time allotted. All deficiencies in subjects required for admission must be made up before the student is allowed to enter upon the work of the second (Junior) year.

*Age*—No one is admitted to the Freshman class who is less than sixteen years of age.

#### DATE AND PLACES OF EXAMINATION

Two regular examination sessions are held each year,—the first, at the close of the college year in June; the second, at the beginning of the college year in September.

*June Examinations*—In 1909, the first examination session will be held on Thursday, Friday and Saturday, July 1, 2, and 3. Attendance, for the purpose of registration, is required at the opening of the session at 8.30 A. M.

In June, 1909, examinations (for the Freshman class only) will be held at the places mentioned on pp. 90-91.

Candidates who propose to present themselves for examination elsewhere than in New Haven are requested to send their names to the Registrar of the School, before May 15.

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\* Blank forms for this purpose will be sent upon application to the Registrar of the Sheffield Scientific School.

The Sheffield Scientific School is prepared to hold examinations for admission, at the above-named time, in any city or at any school where the numbers of candidates and the distance from other places of examination may warrant it. Applications for this purpose must be sent to the Registrar before May 15.

*Fee*—A fee of five dollars, *payable at the opening of the session at the place of examination*, is charged for admission to all examinations (whether complete or partial) held outside of New Haven.

*September Examinations* — The second (or September) session of examinations in 1909 will be held *in New Haven only*, on Monday, Tuesday, and Wednesday, September 27, 28, and 29. Candidates who have obtained a certificate in June are not required to register at the September examination. Other candidates should present themselves for registration before their first examination.

In general, examinations for admission to the incoming Freshman class can be held only in June and September as specified; if in any case sufficient reason exists for an exception to this rule, a special fee (not exceeding fifty dollars) will be charged.

#### ADMISSION THROUGH EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD

Candidates for admission to the Sheffield Scientific School may meet the entrance requirements by passing with satisfactory grades the equivalent subjects in the examinations set by the *College Entrance Examination Board* and by presenting the Board certificates for credit. The Sheffield Scientific School requirements are given below, and opposite are placed the subjects in the Board examination which may be offered as substitutes.

Certificates, both preliminary and final, will be granted in accordance with the regulations governing the examinations set by the Sheffield Scientific School. A preliminary certificate will not be issued unless at least five equivalent credits have been obtained; but it is not per-

missible to combine the C. E. E. B. examinations with those of this institution to obtain the number of credits requisite for such certificate.

<b>SHEFFIELD SCIENTIFIC SCHOOL</b>	<b>COLLEGE ENTRANCE EXAMINATION BOARD</b>
English Grammar*	
English Lit. A (Reading and Practice)	{ Reading and Practice Study and Practice
English Lit. B (Study and Practice)	
History of England	English History
History of U. S., or Roman History, or Greek History	{ American History, or Mediæval and Modern European History, or Ancient History
Latin Grammar and Composition	{ Grammar Elementary Prose Comp.
Cæsar	Cæsar
Virgil, or	{ Virgil's <i>Æneid</i> , or
Cicero	{ Cicero
German, or	{ Elementary German, or
French	{ Elementary French
Chemistry	Chemistry
Botany	Botany
Physics	Physics
Algebra A	Algebra I, II
Algebra B	Advanced Algebra
Plane Geometry	Plane Geometry
Solid Geometry	Solid Geometry
Trigonometry and Logarithms	Plane Trigonometry

Board certificates should be sent to the Registrar of the Sheffield Scientific School, New Haven, Conn., so that the credits obtained may be recorded.

Requests for the list of places at which examinations are to be held by the Board and for blank applications for admission to the examinations should be sent to the Secretary of the College Entrance Examination Board, Sub-station 84, New York, N. Y. In 1909 the Board examinations will be held June 14-19.

#### **REQUIREMENTS FOR ADVANCED STANDING**

All candidates for advanced standing are examined in the subjects required for admission as well as in the studies already pursued by the class which they wish to enter,

\* In case the candidate passes the C. E. E. B. examinations in English, the Sheffield Scientific School examination in English Grammar will be waived.

except where satisfactory credits, covering the required subjects, are presented from some other university or college of good standing. No candidate for a degree is admitted later than the beginning of the Senior year.\* Students from other colleges must present certificates of dismissal in good standing.

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\* Blank forms of application for advanced standing will be sent upon request by the Registrar of the Sheffield Scientific School.

**INSTRUCTION  
FOR UNDERGRADUATE STUDENTS  
COURSES OF INSTRUCTION**

Courses of instruction, occupying three years, are arranged to suit the requirements of various classes of students. The work of the first year is a general preparation for the advanced and special work of the later courses. The instruction of this year has a general scientific basis of mathematics, chemistry, and physics. In addition to these studies special attention is given to English and the modern languages. For the later years, the instruction is chiefly arranged in Special Courses. Modern languages are, however, studied by all students, irrespective of the special course which they may elect. Either French or German is offered as a requisite for admission by each student. The language taken in the entrance examinations is continued through Freshman and Junior years, while the other language is begun in Junior year and continued through Senior year. Opportunity is also afforded for the study of Spanish.

The Courses of study most distinctly marked out are :

- I. Chemistry ;
- II. Chemistry preparatory to Metallurgy ;
- III. Civil Engineering ;
- IV. Mechanical Engineering ;
- V. Electrical Engineering ;
- VI. Municipal and Sanitary Engineering ;
- VII. Engineering preparatory to Mining ;
- VIII. Zoology and Botany ;
- IX. Mineralogy and other Studies preparatory to Geology ;
- X. Biology preparatory to Medical Studies ;
- XI. Selected Studies in Language, Literature, History, and the Natural and Social Sciences ;
- XII. Studies preparatory to the Study of Forestry ;
- XIII. Mathematics, Pure and Applied.

A fuller statement of the methods and character of the instruction will be found under **SUBJECTS OF INSTRUCTION**, pp. 261 to 292.

## FRESHMAN YEAR: INTRODUCTORY TO ALL COURSES

## CHOICE OF COURSE

The class is divided into two groups at the opening of the year. *Students must notify the Registrar of the Sheffield Scientific School before September first regarding which group they intend to enter.* The groups are:—

THE ENGINEERING SCIENCE GROUP, preparatory to the courses in

Civil Engineering  
Mechanical Engineering  
Municipal and Sanitary Engineering  
Electrical Engineering  
Engineering preparatory to Mining  
Mathematics, Pure and Applied

THE NATURAL SCIENCE GROUP, preparatory to the courses in

Chemistry\*  
Chemistry preparatory to Metallurgy\*  
Biology preparatory to Medical Studies  
Zoology and Botany  
Mineralogy and other Studies preparatory to Geology  
Selected Studies in Language, Literature, History, and the  
Natural and Social Sciences  
Studies preparatory to the Study of Forestry

The *final choice of course* within the two groups must be made on or before April 1. The purpose of the division of the Freshman class into two general groups is to permit a suitable preparation for the work of the special courses. With this in view, the students electing the Engineering Group pursue such studies in Mathematics as are demanded by the advanced mathematical studies of the engineering courses. Students in the Natural Science Group pursue a briefer course of a more general nature, including Elementary Calculus, designed to complete their general training. In place of part of the Mathematics and Mechanical Drawing required of the candidates for the engineering courses, the students in the Natural Science Group receive instruction in General Biology in a course especially planned to meet the needs of the general student of science and

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\* Students intending to enter the courses in Chemistry or Metallurgy in Junior year may elect either group.



literature, and intended to contribute to a broad culture, rather than a specialized training.

The arrangement of studies in Freshman year is indicated in the annexed scheme. Unless otherwise specified, the number of hours given means hours per week.

#### INSTRUCTORS

*In Mathematics*: Professor P. F. SMITH, Dr. GRANVILLE, Dr. HEWES, Dr. W. R. LONGLEY, Dr. BILL, Dr. CONWELL, and assistants.

*In Physics*: Professor HASTINGS, Assistant Professor BEACH, Dr. COOPER, Mr. PERRY, and Mr. COOKSEY.

*In Chemistry*: Professor MIXTER, Assistant Professor WALDEN, Dr. JOHNS, Dr. MATHEWSON, and assistants.

*In English*: Assistant Professors NETTLETON and CANBY, Dr. PIERCE, Dr. MACCRACKEN, and Mr. MAY.

*In Foreign Languages*: Professors CORWIN and CLARKE, Assistant Professor GLASCOCK, Dr. THORSTENBERG, Dr. GARVER, Dr. WARD, Mr. ROBBINS, and Mr. J. P. RICE.

*In Mechanical Drawing*: Mr. NORTH and assistants.

*In Biology*: Professors HARRISON and EVANS, Assistant Professors COE and RETTGER, Dr. GRAVES, Dr. KUNKEL, Dr. WOODRUFF, Dr. KIRKHAM, and assistants.

#### SCHEME OF STUDIES

##### ENGINEERING SCIENCE GROUP

##### FIRST TERM:—

*German or French*—3 hrs.

*Mathematics*—Plane Analytic Geometry, 3 hrs.

*Physics*—Recitations, 2 hrs.; Experimental lectures, 2 hrs.

*Chemistry*—Recitations, 2 hrs.; Lectures and laboratory work, 3 hrs. for division A. Qualitative Analysis, recitation, 1 hr.; Lectures and laboratory work, 5 hrs. for division B.

*English*—Shakespeare, 2 hrs.

*English Composition*—1 hr.

*Drawing*—Principles of Orthographic, Isometric and Cabinet Projection; Perspective; Intersections and Development of Surfaces, 3 hours.

##### SECOND TERM:—

*German or French*—3 hrs.

*Physics*—Recitations, 2 hrs.; Experimental lectures, 2 hrs.

*Chemistry*—Recitations, 2 hrs.; Lectures and laboratory work, 3 hrs. for division A. Qualitative Analysis, recitation, 1 hr.; Lectures and laboratory work, 5 hrs. for division B.

*Mathematics*—Plane Analytic Geometry, continued, 3 hrs. Winter half-term. Analytic Geometry of Space, 3 hrs. Spring half-term.

*English*—Nineteenth Century Literature, 2 hrs.

*English Composition*—1 hr.

*Drawing*—(Continued) 3 hrs.

#### NATURAL SCIENCE GROUP

##### FIRST TERM :—

*German or French*—3 hrs.

*Mathematics*—Analytics and Calculus, 3 hrs.

*Physics*—Recitations, 2 hrs. ; Experimental Lectures, 2 hrs.

*Chemistry*—Recitations, 2 hrs. ; Lectures and laboratory work, 3 hrs. for division A. Qualitative Analysis, recitation, 1 hr. ; Lectures and laboratory work, 5 hrs. for division B.

*English*—Shakespeare, 2 hrs.

*Biology*—Lectures and laboratory work, 5 hrs.

##### SECOND TERM :—

*German or French*—3 hrs.

*Mathematics*—Elementary Calculus, 3 hrs. Winter half-term.

*Physics*—Recitations, 2 hrs. ; Experimental Lectures, 2 hrs.

*Chemistry*—Recitations, 2 hrs. ; Lectures and laboratory work, 3 hrs. for division A. Qualitative Analysis, recitations, 1 hr. ; Lectures and laboratory work, 5 hrs. for division B.

*English*—Nineteenth Century Literature, 2 hrs.

*Biology*—Lectures and laboratory work, 5 hrs.

*Drawing*—Principles of Orthographic Projection, 3 hrs. Spring half-term.

At the beginning of the second term an honor section is formed in the Freshman class, consisting of students whose scholarship during the Fall term has been exceptionally high. An opportunity is thus afforded for the more proficient to make rapid progress in their studies.

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FALL FIELD WORK IN SURVEYING.—*Particular attention is called to the fact that the field work in Surveying for the Junior year begins on the first Monday in September of each year.*

## INSTRUCTION IN JUNIOR AND SENIOR YEARS

The aims and scope of the Special Courses in which the instruction is arranged for the Junior and Senior years, are outlined below. More detailed information regarding the character of the instruction offered will be found under **SUBJECTS OF INSTRUCTION**, pp. 261 to 292.

### I. CHEMISTRY

Professors **WELLS**, **PIRSSON**, **H. L. WHEELER**; Assistant Professors **FOOTE**, **FORD**; Mr. **COMSTOCK**, Dr. **JOHNSON**, Dr. **DEAN**, Dr. **JAMIESON**, Dr. **MATHEWSON**, and assistants.

The aim of the instruction in this course is to provide a training which will serve as a basis for a career in any branch of pure or applied chemistry. With this end in view, the general and fundamental principles of the science receive much attention, in the belief that exact scientific knowledge is preferable to mere drill in the practical applications of the subject, since the principles can always be used, while the details of practice are continually changing.

The practical side of the science is not neglected in the course, for much instruction is given in such branches as can be profitably studied in the laboratory. In analytical chemistry—both qualitative and quantitative—much time is devoted to the attainment of skill in manipulation and a knowledge of the more important methods used in practical work. Likewise, much of the laboratory work in organic and inorganic preparations is so chosen as to illustrate important technical operations. In these and in other practical courses particular attention is paid to the scientific principles involved in the operations.

The more theoretical studies of the course are dealt with by recitations and lectures in organic chemistry, general and theoretical chemistry, physical chemistry and chemical calculations. Most of these subjects are introductory to laboratory work, or are carried on in connection with it.

The course gives an opportunity for specializing in several branches, such as in the analysis of food-products, sanitary water analysis, and physico-chemical laboratory

work. It includes also the study of metallurgy, considered chiefly from a chemical standpoint, as well as a course in applied chemistry.

Students who have pursued this course successfully will obtain a good foundation of knowledge in several important branches of chemistry. They will be able to undertake work in teaching the subject and in practical analytical chemistry; and they will be well equipped to master rapidly the principles of operations connected with chemical manufacturing.

A more detailed description of the subjects of instruction in this course is given on pp. 266 to 270.

#### SCHEME OF STUDIES

##### JUNIOR YEAR:

###### FIRST TERM:—

*Organic Chemistry*—Lectures and recitations, 3 hrs.

*Qualitative Analysis*—Recitations and lectures, 3 hrs.; Laboratory work, 14 hrs.

*Determinative Mineralogy*—3 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

###### SECOND TERM:—

*Organic Chemistry*—Lectures and recitations, 1 hr.; Laboratory work, 6 hrs. Winter half-term; Lectures and recitations, 3 hrs. Spring half-term.

*Quantitative Analysis* (Gravimetric)—Laboratory work, 14 hrs.; Lectures and recitations, 1 hr.

*Chemical Calculations*—1 hr.

*Determinative Mineralogy*—3 hrs.

*Crystallography and Descriptive Mineralogy*—Lectures, 2 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SENIOR YEAR:

###### FIRST TERM:—

*Applied Chemistry*—Lectures and recitations, 2 hrs.

*General and Theoretical Chemistry*—Recitations, 3 hrs.

*Quantitative Analysis* (Volumetric)—Laboratory work, 14 hrs.; Lectures and recitations, 1 hr.

*Chemical Calculations*—1 hr.

*Geology*—Recitations, 3 hrs.

*Mineralogy*—(optional).

*French or German*—3 hrs.

SECOND TERM :—

*Physical Chemistry*—Recitations, 3 hrs.

*Inorganic Preparations* followed by *Organic Preparations*—Laboratory work, 14 hrs.; Recitations, 1 hr. [Optional: *Proximate Analysis of Vegetable and Animal Products*; *Physico-Chemical Measurements*; or *Sanitary Water Analysis*—14 hrs. for part of term.]

*Metallurgy, Assaying, and Gas Analysis*—3 hrs.

*Historical Geology*—3 hrs. Winter half-term.

*Economic Geology*—3 hrs. Spring half-term.

*Mineralogy* (optional).

*Elementary Petrology*—Lectures (optional), 1 hr.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

## II. CHEMISTRY PREPARATORY TO METALLURGY

Professors WELLS, PIRSSON, IRVING, HUNTOON; Assistant Professors MARSHALL, FOOTE, TRACY, FORD; Dr. JOHNSON, Dr. JAMIESON, Dr. MATHEWSON, and assistants.

This course is related to that in Chemistry and is intended to provide a training suitable for an understanding of metallurgical operations, particularly from a chemical point of view. Drawing, ore dressing, metallurgical analysis, and a more elaborate course in assaying are taken up in the place of organic chemistry. A course in surveying is also required.

The quantitative chemical analysis given in this course is particularly extensive, since it includes that of the course in chemistry, and also additional work in the analysis of ores, furnace products, etc. The same attention to theoretical principles is given here as in the course in chemistry, and the same instruction is given in general and theoretical chemistry, physical chemistry and chemical calculations, as in that course.

The graduate of this course should be competent to undertake work as a metallurgical chemist or assayer, and he should be in a position to master quickly the details of any metallurgical operation. Those who are desirous of obtaining a more intimate knowledge of the

closely related subject of mining, as an aid in a metallurgical career, are advised to pursue a year of graduate work in studies relating to mining.

A more detailed description of the subjects of instruction in this course is given on pp. 261 to 292.

#### SCHEME OF STUDIES

##### JUNIOR YEAR :

##### FIRST TERM :—

- *Surveying*—Field work, 3 weeks, beginning Monday, September 6, in 1909.
- Surveying*—Office work ; Mapping and Calculations, 4 hrs.
- Qualitative Analysis*—Laboratory work, 14 hrs.; Lectures and recitations, 3 hrs.
- Determinative Mineralogy*—3 hrs.
- English Composition*—1 hr.
- French* \*—3 hrs.
- German* \*—3 hrs.

##### SECOND TERM :—

- Quantitative Analysis* (Gravimetric)—Laboratory work, 14 hrs.; Lectures and recitations, 1 hr.
- Chemical Calculations*—1 hr.
- Determinative Mineralogy*—3 hrs.
- Crystallography and Descriptive Mineralogy*—Lectures, 2 hrs.
- Descriptive Geometry and Drawing*—3 hrs.
- English Composition*—1 hr.
- French* \*—3 hrs.
- German* \*—3 hrs.

##### SENIOR YEAR :

##### FIRST TERM :—

- Quantitative Analysis* (Volumetric)—Laboratory work, 14 hrs.; Lectures and recitations, 1 hr.
- Chemical Calculations*—1 hr.
- General Chemistry*—3 hrs.
- Ore Dressing*—2 hrs.
- Assaying*—1 hr.
- Geology*—3 hrs.
- Mineralogy* (optional).
- French, German or Spanish*—3 hrs.

##### SECOND TERM :—

- Assaying*—six weeks, followed by *Inorganic Preparations, Physico-Chemical Measurements, and Metallurgical Analysis*—14 hrs.

\* Spanish may be substituted for either French or German at the beginning of Junior year on petition and for satisfactory reasons.

*Metallurgy*, followed by *Gas Analysis*—3 hrs.

*Historical Geology*—3 hrs. Winter half-term.

*Economic Geology*—3 hrs. Spring half-term.

*Ore Dressing*—2 hrs.

*Assaying*—1 hr. Winter half-term.

*Petrology*—1 hr. Winter half-term.

*Physical and Electro-Chemistry*—3 hrs.

*Mineralogy* (optional).

*Commercial Ethics*—5 lectures.

*French, German or Spanish*—3 hrs.

### III. CIVIL ENGINEERING

Professors DuBois, Pirsson, P. F. Smith; Assistant Professors Barney, Tracy, Ford, Rettger; Dr. Granville, Dr. Hewes, Dr. Longley, Dr. Conwell, Dr. Bill, Mr. Farnham, Mr. Kirby, and assistants.

The object of this course is to give, first of all, a thorough preparation in the principles of the various sciences involved, and afterwards, as extensive practice in the application of those principles as the time at disposal, the ability of the students, and the facilities and plant permit.

Under the first head are included such subjects as mathematics, physics, mechanics, thermodynamics, astronomy, geology, mineralogy, and chemistry; and under the second head, drawing, surveying, strength and properties of materials, and designs and construction of various kinds, such as bridges, roofs, foundations, arches, retaining walls, dams, water works, railroads, improvement of rivers and harbors, sewerage and drainage, motors, hydraulics and sanitary engineering.

The first division includes Civil Engineering as a Science, the other, Civil Engineering as an Art. The ground covered by the first is definite, and the instruction is made as thorough as possible. The ground covered by the second is of almost indefinite extent. Here, by a careful selection of practical examples, such as occur in engineering practice, the application of principles is illustrated, and together with the analytical or algebraic methods, the student is also instructed in practical graphic solutions, wherever such solutions present a special value. Much time is

devoted to geodetic operations and to surveying in the field.

The method of teaching is by means of practical exercises, lectures, and recitations, so combined as to develop as far as possible the mental powers of the student. Visits of inspection are made at suitable intervals to private and public works of engineering interest.

The entire course requires five years, three years of undergraduate and two of graduate instruction ; and a thesis of merit upon some approved subject, accompanied by designs and estimates, is required upon the completion of the course.

The requirements for the degree of CIVIL ENGINEER will be found on p. 216. A more detailed description of the subjects of instruction in this course is given on pp. 261 to 292.

#### SCHEME OF STUDIES

##### JUNIOR YEAR :

##### FIRST TERM :—

*Surveying*—Field work, 3 weeks, beginning Monday, Sept. 6, in 1909.

*Mathematics*—Differential Calculus, with applications to Geometry and Analysis, 5 hrs.

*Descriptive Geometry*—6 hrs.

*Spherical Trigonometry*—2 hrs.

*Determinative Mineralogy*—3 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SECOND TERM :—

*Mathematics*—Integral Calculus with applications to Geometry 5 hrs. Winter half-term. Theoretical Mechanics—5 hrs. Spring half-term.

*Surveying*—Office work ; Mapping and Calculations, 5 hrs. Winter half-term.

*Astronomy*—6 hrs. Spring half-term.

*Mapping and Lettering*—2½ hrs. Winter half-term.

*Railway Engineering*—Curves, earthwork, economic location, 3 hrs.

*Determinative Mineralogy*—3 hrs. Winter half-term.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.



## SENIOR YEAR :

## FIRST TERM :—

*Field Engineering*—Location of line of Railroad ; four weeks in June and July.

*Office Work*—Mapping ; calculation of earthwork, 5 hrs.

*Mechanics*—Statics, Kinematics, Kinetics, 3 hrs.

*Civil Engineering*—Mechanics applied to Engineering ; Strength of Materials ; Bridges and Roofs ; 4 hrs.

*Bridge Drafting*—2 hrs.

*Adjustment of Observations*—3 hrs.

*Public Hygiene and Bacteriology* (optional)—1 hr.

*Geology*—Recitations, 3 hrs.

*French or German*—3 hrs.

## SECOND TERM :—

*Civil Engineering*—Bridges and Roofs ; Building Materials ; Stability of Arches and Walls ; Foundations ; 4 hrs.

*Railroad Economics*—Lectures, 1 hr. Spring half-term.

*Mechanics*—Applied Mechanics, 4 hrs. Winter half-term.

*Hydraulics*—Hydraulics and Hydraulic Motors, 3 hrs. Spring half-term.

*Structural Engineering*—Practical Problems ; Specifications and Estimates ; 8 hrs. after February 15.

*Forest Hydrography*—Lectures (optional), 4 to 6 in number during Spring half-term.

*Roads and Pavements*—1 hr. Spring half-term.

*Specifications*—1 hr. Winter half-term (optional).

*Masonry Construction*—3 hrs. Winter half-term.

*Economic Location and Construction of Railways*—2 hrs. Spring half-term.

*Geology*—3 hrs. until February 15.

*Elementary Petrology*—Lectures (optional), 1 hr.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

## IV. MECHANICAL ENGINEERING

Professors RICHARDS, P. F. SMITH ; Assistant Professors LOCKWOOD, MARSHALL, FORD ; Dr. GRANVILLE, Dr. LONGLEY, Dr. SHEPARD, Dr. HEWES, Dr. CONWELL, Dr. BILL, Mr. LILLEY, Mr. NORTH, Mr. SEWARD, and assistants.

The objects aimed at in the plan of instruction in this course are, to give the student a thorough training in elementary and advanced mathematics and physics, and their application to the science of construction ; to make him familiar with the general principles of Engineering

and, as far as possible, with the practical details of mechanical construction through which these principles are made useful; and to enable him ultimately, in beginning the work of his profession, to bring to bear upon it a well-balanced store of theoretical knowledge, and a mind trained in correct habits of thought and work.

The complete course covers five years, three of which are spent in undergraduate study, and two in a graduate course, a portion of which may be given to actual practical work. A more detailed description of the subjects of instruction in this course is given on pp. 261 to 292. The requirements for the degree of MECHANICAL ENGINEER are given on p. 217.

#### SCHEME OF STUDIES

##### JUNIOR YEAR :

##### FIRST TERM :—

*Mathematics*—Differential Calculus, 5 hrs.

*Thermodynamics*—2 hrs.

*Principles of Mechanism*—2 hrs.

*Descriptive Geometry*—3 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SECOND TERM :—

*Mathematics*—Integral Calculus, 5 hrs. Winter half-term; Theoretical Mechanics, 5 hrs. Spring half-term.

*Shop-Visiting*—1  $\frac{3}{4}$  hrs.

*Thermodynamics*—2 hrs. until about March 20.

*Applied Mechanics*—2 hrs. after March 20.

*Drawing*—3 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SENIOR YEAR :

##### FIRST TERM :—

*Mechanics*—3 hrs.

*Steam Engineering*—4 hrs.

*Strength of Materials*—2 hrs.

*Machine Designing*—7 hrs.

*Determinative Mineralogy* (optional)—3 hrs.

*French or German*—3 hrs.

## SECOND TERM :—

*Mechanics*—3 hrs.*Steam Engineering*—3 hrs. until about March.*Stresses in Structures*—3 hrs. after February.*Hydrostatics and Hydrodynamics*—3 hrs.*Machine Designing*—7 hrs.*Commercial Ethics*—5 lectures.*Determinative Mineralogy* (optional)—3 hrs.*French or German*—3 hrs.

## V. ELECTRICAL ENGINEERING

Professors HASTINGS, P. F. SMITH; Assistant Professors BEACH, L. P. WHEELER, MARSHALL; Dr. GRANVILLE, Dr. C. B. RICE, Dr. HEWES, Dr. LONGLEY, Dr. DADOURIAN, Dr. COOPER, Dr. CONWELL, Dr. BILL, Mr. LILLEY, Mr. PERRY, Mr. COOKSEY, Mr. BATES, and assistants.

The aim of this course is to impart a sound knowledge of the extensive theories which form the scientific basis of applied electricity, rather than a familiarity with the ever-changing practice of the manufacturers of electrical machinery. A more detailed description of the method pursued and the subjects of instruction appear on pp. 261 to 292.

## SCHEME OF STUDIES

## JUNIOR YEAR :

## FIRST TERM :—

*Mathematics*—Differential Calculus, with applications to Geometry and Analysis, 5 hrs.*Theory of Heat*—3 hrs.*Descriptive Geometry*—3 hrs.*Mechanism*—2 hrs.*Shop-Visiting*—2 hrs.*English Composition*—1 hr.*German*—3 hrs.*French*—3 hrs.

## SECOND TERM :—

*Mathematics*—Integral Calculus, with applications to Geometry, 5 hrs. Winter half-term; Theoretical Mechanics, 5 hrs. Spring half-term.*Theory of Heat*, followed by *Theory of Electricity*—3 hrs.*Descriptive Geometry and Drawing*—3 hrs.*Analytical Mechanics*—3 hrs.*English Composition*—1 hr.*German*—3 hrs.*French*—3 hrs.

## SENIOR YEAR :

## FIRST TERM :—

*Theory of Physical Instruments and Measurements*—5 hrs.

*Laboratory Work*—9 hrs.

*Machine Designing*—6 hrs.

*Steam Engine*—2 hrs.

*Shop-Visiting*—2 hrs.

*French or German*—3 hrs.

## SECOND TERM :—

*Theory of Electricity*—5 hrs.

*Laboratory Work*—6 hrs.

*Dynamo Construction*—3 hrs.

*Machine Designing*—6 hrs.

*Steam Engine*—2 hrs.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

## VI. MUNICIPAL AND SANITARY ENGINEERING

Professors DuBois, Pirsson, P. F. Smith, H. E. Smith; Assistant Professors Barney, Tracy, Rettger; Mr. Farnham, Mr. Kirby, Dr. Granville, Dr. Hewes, Dr. Longley, Dr. Woodruff, Dr. Conwell, Dr. Bill, Dr. Jamieson, and assistants.

The object of this course is to afford a training for students who wish to devote attention especially to those branches of Civil Engineering that concern the public health and convenience, such as Water Supply, Sewerage and Pavements, with due regard to both the engineering and economic features involved. This calls first of all for a thorough training in the general principles of the various sciences, the applications of which constitute the art of Civil Engineering; second, for a sufficient knowledge of Chemistry and Bacteriology and their relations to those engineering problems dealing with sanitation, to enable the engineer to design the various municipal works with due regard to their effect upon the public health.

In the course of study outlined below it is the aim in each subject first to give as thorough a preparation in the principles involved as the time at command will allow, before illustrating their use in applied engineering by means of carefully selected examples. The instruction is intended, above all, to develop in the student that mental

power which will enable him, in the future, to design engineering works, to meet satisfactorily the constantly varying conditions of practice, and to gain the ability to present his work to the consideration of others in a clear and convincing manner. The method of teaching is by means of recitations, lectures, and practical exercises, supplemented by visits to works of engineering and sanitary interest.

A more detailed description of the subjects of instruction in this course is given on pp. 261 to 292.

### SCHEME OF STUDIES

#### JUNIOR YEAR :

##### FIRST TERM :—

*Surveying*—Field work, 3 weeks, beginning Monday, September 6, in 1909.

*Mathematics*—Differential Calculus, with applications to Geometry, Kinematics, and Analysis, 5 hrs.

*Spherical Trigonometry*—2 hrs.

*Cement Testing*—2 hrs.

*Descriptive Geometry*—6 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SECOND TERM :—

*Mathematics*—Integral Calculus with applications to Geometry, 5 hrs. Winter half-term ; Theoretical Mechanics, 5 hrs. Spring half-term.

*Surveying*—Office work ; Mapping and calculations, 5 hrs. Winter half-term.

*Astronomy*—6 hrs. Spring half-term.

*Masonry Construction*—2 hrs. Winter half-term.

*Railway Engineering*—3 hrs. Winter half-term.

*Hydraulics*—3 hrs. Spring half-term.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

#### SENIOR YEAR :

##### FIRST TERM :—

*Field Engineering*—Topographical and Hydrographical Surveying, four weeks in June and July.

*Office Work*—Calculations and mapping, 5 hrs.

*Water-Supply Engineering*—3 hrs.

*Mechanics*—3 hrs.

*Stresses*—4 hrs.

*Adjustment of Observations*—3 hrs.

*Bridge Drafting*—2 hrs.

*Public Hygiene and Bacteriology* (optional)—1 hr.

*General Physiology of the Lower Organisms* (optional)—3 hrs.

*Physical Geology*—3 hrs.

*German or French*—3 hrs.

#### SECOND TERM :—

*Stresses*—Bridges and Roofs, 4 hrs. to February 15.

*Structural Engineering*—Roofs and Bridges, 8 hrs. after February 15.

*Sewer Design and Construction*—3 hrs. Winter half-term.

*Chemistry*—Water Analysis, 7 hrs. Winter half-term.

*Bacteriology*—6 hrs. Spring half-term.

*Sewage Disposal*—3 hrs. Spring half-term.

*Specifications*—1 hr. Winter half-term.

*Roads and Pavements*—1 hr. Spring half-term.

*Economic Location and Construction of Railways*—2 hrs. Spring half-term.

*Water Supply and Drainage of Modern Buildings*—1 hr. Spring half-term.

*Interpretation of Water Analysis*—1 hr. Spring half-term.

*General Physiology of the Lower Organisms* (optional)—3 hrs.

*Commercial Ethics*—5 lectures.

*German or French*—3 hrs.

#### VII. ENGINEERING PREPARATORY TO MINING

Professors RICHARDS, IRVING, PIRSSON, WELLS, P. F. SMITH, HUNTOON; Assistant Professors LOCKWOOD, MARSHALL, FORD, BARNEY, TRACY, FOOTE; Dr. GRANVILLE, Dr. HEWES, Dr. LONGLEY, Dr. CONWELL, Dr. BILL, Dr. JAMIESON, Mr. ROE, and assistants.

This undergraduate course consists largely of studies in mathematics and in several lines of civil and mechanical engineering, and aims to give the student a satisfactory basis for a training in mining. Considerable attention is paid to qualitative and quantitative chemical analysis, mineralogy and crystallography during the Junior year, while the subjects of geology, petrology, ore deposits, ore dressing, and assaying are taken in the Senior year.

A graduate course of two years in advanced work in geology, mineralogy, ore dressing, and chemical, metallurgical, and mining subjects is desirable for those who

wish to acquire a broad education in mining. A complete course (covering five years with inclusion of those spent in undergraduate study) is arranged to lead to the degree of MINING ENGINEER. The requirements for this degree are given on p. 218.

A more detailed description of the subjects of instruction in this course is given on pp. 261 and 292.

#### SCHEME OF STUDIES

##### JUNIOR YEAR :

###### FIRST TERM :—

*Surveying*—Field work, 3 weeks, beginning Monday, September 6, in 1909.

*Surveying*—Office work ; Mapping and calculations, 4 hrs.

*Qualitative Chemical Analysis*—Laboratory work, 13 hrs.; Lectures and recitations, 4 hours.

*Calculus*—2 hrs.

*Determinative Mineralogy*—Laboratory work, 3 hrs.

*English Composition*—1 hr.

*German*\*—3 hrs.

*French*\*—3 hrs.

###### SECOND TERM :—

*Quantitative Analysis* (Gravimetric and Volumetric)—Laboratory work, 14 hrs.; Lectures and recitations, 1 hr.

*Chemical Calculations*—1 hr.

*Calculus*—2 hrs. Winter half-term.

*Descriptive Geometry*—3 hrs.

*Determinative Mineralogy*—3 hrs.

*Crystallography and Descriptive Mineralogy*—2 hrs.

*English Composition*—1 hr.

*French*\*—3 hrs.

*German*\*—3 hrs.

##### SENIOR YEAR :

###### FIRST TERM :—

*Surveying*—Field work, 4 weeks in June and July.

*Mapping*—4 hrs.

*Assaying*—Laboratory work, 8 hrs.; Lecture, 1 hr.

*Mechanics*—3 hrs.

*Strength of Materials*—3 hrs.

*Machine Designing*—4 hrs.

*Ore Dressing*—Lectures, 2 hrs.

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\* Spanish may be substituted for either French or German at the beginning of the Junior year on petition and for satisfactory reasons.

*Geology*—3 hrs.

*Mineralogy* (optional).

*French, German, or Spanish*—3 hrs.

SECOND TERM :—

*Assaying*—Laboratory work, 8 hrs.; Lecture, 1 hr. Winter half-term.

*Mechanics*—3 hrs.

*Stresses in Structures*—3 hrs. after February.

*Hydraulics*—3 hrs.

*Machine Designing*—6 hrs.

*Ore Dressing*—Lectures, 2 hrs.

*Historical Geology*—3 hrs. Winter half-term.

*Economic Geology*—3 hrs. Spring half-term.

*Petrology*—1 hr. Winter half-term.

*Mineralogy* (optional).

*Commercial Ethics*—5 lectures.

*French, German, or Spanish*—3 hrs.

### VIII. ZOOLOGY AND BOTANY

Professors EVANS, WELLS, SCHUCHERT, HARRISON, CHITTENDEN, PIRSON; Assistant Professors COE, UNDERHILL, FOOTE, RETTGER; Mr. COMSTOCK, Dr. COLE, Dr. KUNKEL, Dr. WOODRUFF, Dr. DEAN, Dr. A. H. GRAVES, Dr. KIRKHAM, and assistants.

This course aims to prepare students for the work of teaching or investigation in zoology and botany, and may be introductory to advanced work in paleontology. Either zoology or botany may be made the principal laboratory study in Senior year.

By means of lectures and laboratory work the students are taught the structures of typical animals and plants and the principles of classification, together with the more important phenomena of animal and plant physiology and the relations of organisms to environment. The special methods employed in the study of organisms and in the collection and preparation of objects for microscopical study and dissections are considered. When sufficient proficiency is shown by students, opportunity will be given for the investigation of original problems in zoology or botany, in connection with which the extensive collections of the University are available.

Details regarding the studies of this course are given under SUBJECTS OF INSTRUCTION, pp 261 to 292.



## SCHEME OF STUDIES

## JUNIOR YEAR :

## FIRST TERM :—

*Qualitative Analysis*—Recitation, 1 hr.; Lectures and laboratory work, 5 hrs.

*Invertebrate Zoology*—Lectures and laboratory work, 6 hrs.

*General Botany of the Flowering Plants*—Lectures and laboratory work, 6 hrs.

*Physical Geography*—3 hrs.

*Physiology*—1 hr.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

## SECOND TERM :—

*Qualitative Analysis*—Recitation, 1 hr. ; Lectures and laboratory work, 5 hrs.

*Invertebrate Zoology*—Lectures and laboratory work, 6 hrs.

*General Botany of the Flowering Plants*—Lectures and laboratory work, 6 hrs. Spring half-term.

*Physiology*—1 hr.

*Physical Geography*—3 hrs. for first half of Winter half-term.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

## SENIOR YEAR :

## FIRST TERM :—

*Organic Chemistry*—Lectures and recitations, 3 hrs.

*Embryology*—Lectures and laboratory work, 6 hrs.

*Morphology of Plants*—Lectures and laboratory work, 6 hrs.

*Animal Behavior*—2 hrs.

*Bacteriology* (optional).

*General Physiology of the Lower Organisms*—3 hrs.

*Geology*—Recitations, 3 hrs.

*French or German*—3 hrs.

## SECOND TERM :—

*Organic Chemistry*—Lectures and recitations, 1 hr. ; Laboratory work, 6 hrs. Winter half-term ; Lectures and recitations, 3 hrs. Spring half-term.

*Comparative Anatomy*—Lectures and laboratory work, 6 hrs.

*Morphology of Plants*—Lectures and laboratory work, 6 hrs.

*Physiology of Nutrition* (optional)—Recitations and demonstrations, 3 hrs. second half-year.

*History of Biology* (optional)—1 hr.

*Parasitology* (optional)—2 hrs. Spring half-term.

*Historical Geology*—3 hrs. Winter half-term.

*Forest Entomology* (optional)—Lectures and laboratory work, 6 hrs. Winter half-term.

*Bacteriology* (optional).

*General Physiology of the Lower Organisms*—3 hrs.

*Plant Physiology* (optional)—Lectures and laboratory work, 6 hrs. Spring half-term.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

## IX. MINERALOGY AND OTHER STUDIES PREPARATORY TO GEOLOGY

Professors PIRSSON, IRVING, WELLS, Assistant Professors FORD, FOOTE; Dr. JAMIESON, Dr. JOHNSON, Dr. F. WARD, and assistants.

Chemistry is an essential foundation for the study of Mineralogy, hence the course here offered is simply a modification of that in Chemistry, enabling students during the last half of their Senior year to specialize in subjects pertaining to mineralogy. The course is not intended for a large number of students, but rather for the few who may wish to pursue mineralogy as a science, to make practical use of it in teaching or in connection with geological work. The course, therefore, is open only to students who have shown special aptitude in this particular field of work and have maintained a high scholarship standing in the mineralogical and chemical studies of Junior year.

Details regarding the studies of this course are given under SUBJECTS OF INSTRUCTION, pp. 261 to 292.

### SCHEME OF STUDIES

#### JUNIOR YEAR:

In Junior year the course is identical with that in Chemistry preparatory to Metallurgy.

#### SENIOR YEAR:

##### FIRST TERM:—

*Volumetric Chemical Analysis*—Laboratory work, 14 hrs.; Lectures and recitations, 1 hr.

*Chemical Calculations*—1 hr.

*General Chemistry*—3 hrs.

*Crystallography*, including the use of the Reflecting Goniometer and the drawing and calculation of Crystals—Lectures and laboratory work, 9 hrs.

*Geology*—3 hrs.

*French or German*—3 hrs.

**SECOND TERM :—**

*Quantitative Chemical Analysis* : Analysis of minerals and rocks, followed by *Metallurgical Analysis*—Laboratory work, 9 hrs.

*Optical Properties of Minerals* and the use of the Polarizing Microscope, followed by *Microscopic Petrography*—Lectures and laboratory work, 9 hrs.

*Advanced Mineralogy*—Lectures and laboratory work, 3 hrs.

*General and Physical Chemistry*—3 hrs.

*Metallurgy and Gas Analysis*—3 hrs.

*Historical Geology*—3 hrs. Winter half-term.

*Economic Geology*—3 hrs. Spring half-term.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

**X. BIOLOGY PREPARATORY TO MEDICINE**

Professors CHITTENDEN, WELLS, MENDEL, PIRSSON, EVANS, HARRISON ; Assistant Professors COE, FOOTE, RETTGER, UNDERHILL, WALDEN ; Mr. COMSTOCK, Dr. COLE, Dr. WOODRUFF, Dr. DEAN, Dr. A. H. GRAVES, Dr. KUNKEL, Dr. KIRKHAM, and assistants.

The study of biology, together with chemistry and physics, constitutes the best and most natural line of preparatory work for the study of medicine. The Course in Biology was, accordingly, organized in recognition of the fundamental importance which such preparatory training assumes for the most complete appreciation and intelligent understanding of the science of medicine in its broadest sense. To the prospective medical student the special knowledge as well as the general training afforded are of distinct value ; for the biological sciences so closely underlie the science of medicine and are so plainly the substructure on which the latter rests, that a broad and intelligent comprehension of the subject is almost impossible without some acquaintance with one or more of them.

With these facts in view, less attention is given to systematic zoology and botany than to morphology and physiology. In morphology, special emphasis is directed to those subjects of which a knowledge is essential to the clear understanding of the physiological work which follows and of medical science in general. On the physio-

logical side, the course provides more extensive study than is ordinarily offered. Considerable attention is devoted to laboratory work in physiological chemistry, thus producing familiarity with the chemical as well as with the physical and morphological aspects of biology. The laboratory method of instruction is introduced wherever feasible. It is the aim to teach the student self-reliance and the habit of independent observation and deduction while he is acquiring the knowledge needed to enable him to pursue with profit the professional studies of the Medical School.

This course is also pursued by those who desire a liberal training with a view to teaching various branches of biological science, without specializing as extensively as is done in the course in Zoology and Botany. Students are also fitted (especially after an additional year or two of graduate study) to take positions in research laboratories, hygienic institutions connected with Boards of Health, commercial laboratories for the preparation or analysis of foods, for serum manufacture, etc., as well as in Experiment Stations and the other Government laboratories.

Details regarding the studies pursued are given under SUBJECTS OF INSTRUCTION, pp. 261 to 292.

#### SCHEME OF STUDIES

##### JUNIOR YEAR :

##### FIRST TERM :—

*Organic Chemistry*—Lectures and recitations, 3 hrs. ,

*Qualitative Analysis*—Recitations, 1 hr. ; Lectures and laboratory work, 5 hrs.

*Invertebrate Zoology*—Lectures and laboratory work, 6 hrs.

*Physics*—Laboratory work, 6 hrs.

*Physiology*—1 hr.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SECOND TERM :—

*Organic Chemistry*—Lectures and recitations, 1 hr.; Laboratory work, 6 hrs. Winter half-term ; Lectures and recitations, 3 hrs. Spring half-term.

*Qualitative Analysis*—Recitation, 1 hr. ; Lectures and laboratory work, 5 hrs.

*Physiology*—1 hr.

*General Botany of the Flowering Plants*—Lectures and laboratory work, 6 hrs. Spring half-term.

*Invertebrate Zoology*—Lectures and laboratory work, 6 hrs.

*English Composition*—1 hr.

*French*—3 hrs.

*German*—3 hrs.

#### SENIOR YEAR :

##### FIRST TERM :—

*Physiological Chemistry and Physiology*—Recitations and lectures, 1 hr. ; Laboratory work with demonstrations, 13 hrs.

*Embryology*—Lectures and laboratory work, 6 hrs.

*General Physiology of the Lower Organisms* (optional)—3 hrs.

*Bacteriology*—Laboratory work with lectures and recitations, 6 hrs.

*Geology*—3 hrs.

*French or German*—3 hrs.

##### SECOND TERM :—

*Physiological Chemistry*—Laboratory work and demonstrations, 14 hrs.

*Experimental Toxicology*—Lectures, 3 hrs. Spring half-term.

*Physiology of Nutrition*—Recitations and demonstrations, 3 hrs. second half-year.

*Bacteriology*—Laboratory work with lectures and recitations, 6 hrs. Winter half-term.

*Comparative Anatomy*—Laboratory work, with lectures and demonstrations, 6 hrs.

*Plant Physiology* (optional)—Lectures and laboratory work, 6 hrs. Spring half-term.

*General Physiology of the Lower Organisms* (optional)—3 hrs.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

#### XI. SELECTED STUDIES IN LANGUAGE, LITERATURE, HISTORY, AND THE NATURAL AND SOCIAL SCIENCES

Professors CROSS, CALLENDER, ABBOTT, SCHUCHERT, KELIER ; Assistant Professors RETTGER, NETTLETON, CANBY ; Dr. SURFACE, Dr. KUNKEL, Dr. PIERCE, Mr. FOSTER, and assistants.

Instruction in the studies of this course is given mainly in the Leet Oliver Memorial, a beautiful building pre-

sented to the School by Mrs. James Brown Oliver of Pittsburg in memory of her son Daniel Leet Oliver, who was a member of the class of 1908 and a student in the Select Course. The large and well lighted rooms on the first and second floors, with consultation offices, are designed for the departments of modern language and literature, and the third floor with its large lecture room is especially equipped for history and economics.

The course is intended for men who desire the essentials of a liberal education, with a leaning toward science, as a preparation for business or the study of law. While it is based largely upon history, literature, and the social sciences, it also includes the necessary instruction in mathematics, language, and natural science. In the Freshman year, the student continues his preparatory training in mathematics and the modern languages, and gains a knowledge of the elements of physics, chemistry, and biology. For the next two years his time is devoted mainly to English literature, American and modern European history, and a group of social sciences, comprising government, economics, anthropology, and social evolution. Along with this work, he carries on at the same time scientific studies in those branches that are most closely related to the social sciences, such as organic evolution, physical and commercial geography, and public hygiene. In English literature he pursues a continuous course which extends over three years; while in English composition an opportunity is given him to gain practice in debate. Including the entrance requirement, he has ordinarily two years in both French and German; but for one of these languages he may substitute, if it is deemed advisable, two years in Spanish. Men who wish to complete the scientific part of the course in a different manner are permitted to elect historical geology in place of social evolution. It is believed that a well selected course of studies designed to secure general training rather than specialization should include all of these subjects, and

that it is adapted to the needs of men who expect to engage in business, manufacturing, and banking, to enter professions like law and journalism, or to seek administrative positions in corporations or the public service.

This training can be taken to advantage under the conditions which prevail in the Sheffield Scientific School. In the first place, it enables students who so desire to shorten the period devoted to general studies to three years. They can then either pass to further work here or elsewhere in the professional schools, where specialization can always be done to greater advantage than in college, or go at once into practical affairs if they are to seek a business or administrative career. Second, the course, while not devoted primarily to science, is sufficient to give the student a training in the scientific method of study and accustom his mind to the scientific point of view. This is believed to be an element of great value in the training of men for business careers as well as for those professions which deal with the less exact and definite subjects of history, literature, and the social sciences. Finally, the prevailing method of instruction has many advantages. As the students are usually met in divisions of twenty-five or thirty men, the instructor may know his students individually and have free discussion with them in the class-room. It is not necessary for him to sacrifice the disciplinary value of his subject to the mere acquiring of information, as is the case where the lecture system must be largely used in the instruction of immature students. It is possible therefore, in this course, for students to combine the advantages of life in a large university with those which are usually supposed to belong to the smaller college alone.

Through the generosity of Mr. Edward D. Page, a graduate of the class of 1875, a series of five lectures has been arranged for the Senior class, dealing with commercial ethics or the ethical side of business life. These lectures, which are to be given by men of experience in mercantile, financial, and legal pursuits, will embrace the following

or similar topics: the morals and ethics of production and transportation; the morals and ethics of purchase and sale; the morals and ethics of credit and banking; the morals and ethics of public service; the morals and ethics of corporate and other trusts. It is plain that such a course of lectures coming at the end of Senior year, especially when the presentation is made by men trained in business methods and inspired by a desire to spread abroad among young men correct principles governing business transactions, will prove of the greatest advantage and profit. The following were the subjects and lecturers for 1908:

Introductory Lecture, by Mr. Edward D. Page, of New York City.

Morals and Ethics of Production and Transportation, by Mr. George W. Alger, of New York City.

Ethics of Competition, by Mr. Henry Holt, of New York City.

Morals and Ethics of Credit and Banking, by Mr. Alonzo Barton Hepburn, of New York City.

Morals and Ethics of Public Service, by Mr. Edward Webster Bemis, of Cleveland, Ohio.

Morals and Ethics of Corporate and other Trusts, by Mr. James McKeen, of New York City.

Details regarding the studies of the course are given under SUBJECTS OF INSTRUCTION, pp. 261 to 292.

#### SCHEME OF STUDIES

##### JUNIOR YEAR.

##### FIRST TERM:—

*Physical Geography*—3 hrs.

*English Literature*—3 hrs.

*History—Mediæval*—3 hrs.

*Anthropology*—2 hrs.

*English Composition*—2 hrs.

*French\**—3 hrs.

*German\**—3 hrs.

##### SECOND TERM:—

*Physical and Commercial Geography*—3 hrs.

*Anthropology*—2 hrs.

*English Literature*—3 hrs.

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\* Spanish may be substituted for either French or German at the beginning of the Junior year on petition and for satisfactory reasons.



*History—Modern European—3 hrs.*

*English Composition—2 hrs.*

*French\**—3 hrs.

*German\**—3 hrs.

#### SENIOR YEAR :

##### FIRST TERM :—

*Organic Evolution—3 hrs.*

*English Literature—3 hrs.*

*American History—3 hrs.*

*Economics—3 hrs*

*Modern Government—2 hrs.*

*French, German, or Spanish—3 hrs.*

##### SECOND TERM :—

*Organic Evolution—3 hrs. Winter half-term.*

*Social Evolution†—3 hrs. Spring half-term.*

*Public Hygiene—2 hrs. Winter half-term.*

*English Literature—3 hrs.*

*American History—3 hrs.*

*Economics—3 hrs.*

*Problems in Business Management—2 hrs. Winter half-term.*

*Modern Government—2 hrs.*

*Commercial Ethics—5 lectures.*

*French, German, or Spanish—3 hrs.*

## XII. STUDIES PREPARATORY TO THE STUDY OF FORESTRY

Professors GRAVES, TOUMEY, EVANS, PIRSSON, CALLENDER, PINCHOT ;  
Assistant Professors TRACY, COE, BARNEY, CHAPMAN, FORD ;  
Dr. A. H. GRAVES, Dr. DEAN, Mr. FARNHAM, Mr. HAWLEY, and  
assistants.

This course comprises all the subjects necessary for the pursuit of advanced technical studies in Forestry. The work of Forestry at Yale prepares men to meet the large problems of forest organization at present confronting American foresters. Forestry in this country is in its infancy, and it is necessary that foresters should be equipped to organize large public and private forests, to assist in legislative work, to interest public opinion by writing and public speaking, and to teach in forest schools, as well as to carry on practical work in the woods.

\* Spanish may be substituted for either French or German at the beginning of the Junior year on petition and for satisfactory reasons.

† Historical Geology may be substituted for Social Evolution.

The profession of Forestry demands not only a knowledge of botany, geology, zoology, physics, chemistry, engineering and mathematics, but also a liberal training in economics, English, French, German, and similar subjects.

Details regarding the studies of this course are given under SUBJECTS OF INSTRUCTION, pp. 261 to 292.

### SCHEME OF STUDIES

#### JUNIOR YEAR :

##### FIRST TERM :—

*Surveying*—Field work, 3 weeks, beginning Monday, September 6, in 1909.

*Surveying*—Office work ; Mapping and calculations, 5 hrs.

*Mechanics*—3 hrs.

*Determinative Mineralogy*—3 hrs.

*General Botany of the Flowering Plants*—Lectures and laboratory work, 6 hrs.

*Physical Geography*—3 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SECOND TERM :—

*Mechanics*—3 hrs. Winter half-term.

*Strength of Materials*—2 hrs. Winter half-term.

*Timber Construction*—3 hrs. Spring half-term.

*Hydraulics*—3 hrs. Spring half-term.

*Determinative Mineralogy*—3 hrs. Winter half-term.

*Physical Geography*—3 hrs. first half of Winter half-term.

*General Botany of the Flowering Plants*—Lectures and laboratory work, 6 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

#### SENIOR YEAR :

##### FIRST TERM :—

*Field Engineering*—4 weeks in June and July.

*Mapping*—4 hrs.

*Physical Geology*—3 hrs.

*Morphology of Plants*—Laboratory work and informal lectures, 6 hrs.

*Forest Botany*—Field work, 4 hrs.

*Dendrology*—1 hr.

*Silviculture, Silvics* (optional)—Lectures, 2 hrs.

*Economics*—3 hrs.

*French or German*—3 hrs.

SECOND TERM :—

*Morphology of Plants*, including *Diseases of Trees*—Laboratory work, informal lectures, and excursions, 6 hrs.

*Plant Physiology*—Laboratory work and lectures, 6 hrs. Spring half-term.

*Dendrology*—1 hr.

*Silviculture, Treatment of Woodlands* (optional)—Lectures, 2 hrs.

*Forest Economics* (optional).

*Forest Entomology*—4 hrs. Winter half-term.

*Petrology*—1 hr. Winter half-term.

*Forest Seeding and Planting*—Lectures and field work, 10 hrs. Spring half-term.

*Geology*—3 hrs. for six weeks of Winter half-term.

*State Forest Law* (optional)—2 hrs. Winter half-term.

*Government*—3 hrs.

*Forest Policy* (optional)—6 hrs. Winter half-term.

*Methods of Field Work in Forestry* (optional)—4 lectures, Winter half-term.

*Forest Hydrography* (optional)—6 lectures, Winter half-term.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

XIII. MATHEMATICS, PURE AND APPLIED

Professors HASTINGS, PIRSSON, P. F. SMITH; Assistant Professors BEACH, WHEELER, MARSHALL; Dr. LONGLEY, Dr. HEWES, Dr. GRANVILLE, Dr. CONWELL, Dr. BILL, Mr. NORTH, and assistants.

The curriculum of this course for Junior year differs from the studies pursued in the Engineering Courses by the omission of such subjects as belong to technical engineering. Specialization along mathematical lines begins in Senior year.

The course makes it possible for students especially interested in mathematics and science to advance further in these subjects than is possible in the other courses. The subjects offered suffice for a thorough acquaintance with the elements of exact science and prepare for advanced work in either pure or applied mathematics.

A more detailed description will be found on pp. 261 to 292.

The profession of Forestry demands not only a knowledge of botany, geology, zoology, physics, chemistry, engineering and mathematics, but also a liberal training in economics, English, French, German, and similar subjects.

Details regarding the studies of this course are given under SUBJECTS OF INSTRUCTION, pp. 261 to 292.

### SCHEME OF STUDIES

#### JUNIOR YEAR :

##### FIRST TERM :—

*Surveying*—Field work, 3 weeks, beginning Monday, September 6, in 1909.

*Surveying*—Office work ; Mapping and calculations, 5 hrs.

*Mechanics*—3 hrs.

*Determinative Mineralogy*—3 hrs.

*General Botany of the Flowering Plants*—Lectures and laboratory work, 6 hrs.

*Physical Geography*—3 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

##### SECOND TERM :—

*Mechanics*—3 hrs. Winter half-term.

*Strength of Materials*—2 hrs. Winter half-term.

*Timber Construction*—3 hrs. Spring half-term.

*Hydraulics*—3 hrs. Spring half-term.

*Determinative Mineralogy*—3 hrs. Winter half-term.

*Physical Geography*—3 hrs. first half of Winter half-term.

*General Botany of the Flowering Plants*—Lectures and laboratory work, 6 hrs.

*English Composition*—1 hr.

*German*—3 hrs.

*French*—3 hrs.

#### SENIOR YEAR :

##### FIRST TERM :—

*Field Engineering*—4 weeks in June and July.

*Mapping*—4 hrs.

*Physical Geology*—3 hrs.

*Morphology of Plants*—Laboratory work and informal lectures, 6 hrs.

*Forest Botany*—Field work, 4 hrs.

*Dendrology*—1 hr.

*Silviculture, Silvics* (optional)—Lectures, 2 hrs.

*Economics*—3 hrs.

*French or German*—3 hrs.

SECOND TERM :—

*Morphology of Plants*, including *Diseases of Trees*—Laboratory work, informal lectures, and excursions, 6 hrs.

*Plant Physiology*—Laboratory work and lectures, 6 hrs. Spring half-term.

*Dendrology*—1 hr.

*Silviculture, Treatment of Woodlands* (optional)—Lectures, 2 hrs.

*Forest Economics* (optional).

*Forest Entomology*—4 hrs. Winter half-term.

*Petrology*—1 hr. Winter half-term.

*Forest Seeding and Planting*—Lectures and field work, 10 hrs. Spring half-term.

*Geology*—3 hrs. for six weeks of Winter half-term.

*State Forest Law* (optional)—2 hrs. Winter half-term.

*Government*—3 hrs.

*Forest Policy* (optional)—6 hrs. Winter half-term.

*Methods of Field Work in Forestry* (optional)—4 lectures, Winter half-term.

*Forest Hydrography* (optional)—6 lectures, Winter half-term.

*Commercial Ethics*—5 lectures.

*French or German*—3 hrs.

XIII. MATHEMATICS, PURE AND APPLIED

Professors HASTINGS, PIRSSON, P. F. SMITH; Assistant Professors BEACH, WHEELER, MARSHALL; Dr. LONGLEY, Dr. HEWES, Dr. GRANVILLE, Dr. CONWELL, Dr. BILL, Mr. NORTH, and assistants.

The curriculum of this course for Junior year differs from the studies pursued in the Engineering Courses by the omission of such subjects as belong to technical engineering. Specialization along mathematical lines begins in Senior year.

The course makes it possible for students especially interested in mathematics and science to advance further in these subjects than is possible in the other courses. The subjects offered suffice for a thorough acquaintance with the elements of exact science and prepare for advanced work in either pure or applied mathematics.

A more detailed description will be found on pp. 261 to 292.

## SCHEME OF STUDIES

## JUNIOR YEAR :

## FIRST TERM :—

*Descriptive Geometry*—3 hrs.*Theory of Heat*—3 hrs.*Mathematics*—Differential Calculus, with applications to Geometry and Analysis, 5 hrs.*General Astronomy*—2 hrs.*German*—3 hrs.*French*—3 hrs.*English Composition*—1 hr.

## SECOND TERM :—

*Descriptive Geometry*—3 hrs. until February 15th.*Sound and Light*—3 hrs. after February 15th.*Theory of Electricity*—3 hrs.*Mathematics*—Integral Calculus, with applications to Geometry, 5 hrs. Winter half-term ; Theoretical mechanics, 5 hrs. Spring half-term.*General Astronomy*—2 hrs.*German*—3 hrs.*French*—3 hrs.*English Composition*—1 hr.

## SENIOR YEAR :

## FIRST TERM :—

*Geology*—3 hrs.*Differential Equations*—1 hr.*Vector Analysis*—2 hrs.*Higher Analysis*—2 hrs.*Higher Geometry*—2 hrs.*Advanced Mechanics*—2 hrs.*German or French*—3 hrs.

## SECOND TERM :—

*Geology*—3 hrs.*Vector Analysis*—2 hrs. until February 15th.*Differential Equations*—1 hr.*Higher Analysis*—2 hrs. ; after February 15th, 3 hrs.*Higher Geometry*—2 hrs. ; after February 15th, 3 hrs.*Advanced Mechanics*—2 hrs.*Commercial Ethics*—5 lectures.*German or French*—3 hrs.

## SUBJECTS OF INSTRUCTION

## ENGLISH LITERATURE AND COMPOSITION

Professor CROSS, Assistant Professors NETTLETON, CANBY; Dr. MACCRACKEN, Dr. PIERCE, Mr. WRIGHT, Mr. MAY.

ENGLISH LITERATURE—The courses in English literature are designed, first of all, to lay the foundation for that culture which comes from direct acquaintance with literary masterpieces. To this end representative authors of different periods are read and studied for their art and their thought rather than for any of the extraneous purposes that may enter into the study of literature. At the same time, these authors are taken up in chronological order with the view to keeping the proper historical perspective and to calling attention to some of the main lines in literary developments.

During Freshman year English Literature is required of all students. The fall term is devoted to careful study of three plays of Shakespeare—usually comedies or historical plays. The reading of the winter term begins with several of the eighteenth century comedies, such as Goldsmith's *She Stoops to Conquer* and Sheridan's *Rivals* and *School for Scandal*. The drama is succeeded by selections from nineteenth century authors, usually from Scott, Byron, Carlyle, Browning, and Tennyson. From year to year, the reading varies considerably in detail, but it remains the same in spirit and in general scope.

In the Course of Select Studies, English Literature is one of the prescribed subjects for the entire Junior and Senior years. The work of the two years constitutes a single and continuous course of study of the leading authors, both in prose and in verse, from Chaucer to Tennyson. Among the earlier authors studied are Chaucer, Bacon, Spenser, Shakespeare, Milton, Dryden, Swift, Pope, Gray, and Goldsmith. Other authors, such as Marlowe and Ben Jonson, are usually included to represent more fully the Elizabethan drama. In nineteenth century literature the authors chosen vary considerably from year to year, but the aim is always to acquaint the student, so far as time permits, with representative works of the period. Especial attention is paid to Wordsworth, Byron, Keats, Shelley, Browning, Arnold, and Rossetti.

ENGLISH COMPOSITION—Throughout Junior year English composition is required of all students. The class is divided into groups of about twenty-five men each for text-book instruction and practical class-room drill in the fundamental principles of writing. These recitations are supplemented with fortnightly appointments for personal criticism of the required themes. The work of the first term deals chiefly with exposition, and aims to teach first the essentials of struc-

ture. In the Winter and Spring half-terms, description, narration, and argumentation are successively studied. The simpler methods of the first term are continued with more advanced study of structure and with increasing attention to style. Selections from representative authors are read and analyzed in connection with the regular recitation work, while the personal theme-criticisms are continued to the end of the course.

In the Course of Select Studies, the work in English Composition is carried out with especial thoroughness, the extra hour allotted to it permitting both more extended theme writing and more collateral reading in nineteenth century prose. A special course in debating is open, after Christmas, to those who have proved their ability in the Fall term work in composition. Another course, involving extensive reading, is open to men who desire to supplement their practice in narrative writing with critical study of the best narrative writers.

The addition, this year, of an extra hour of English per week throughout Freshman year for men in the Engineering Sciences group permits the introduction of a course in Freshman English Composition, similar to that hitherto given in Junior year. Hereafter the Junior course for these men will include more advanced training in composition together with more reading in modern English prose. This change is in recognition of the importance of cultural study even in the more technical courses.

Considerable freedom is allowed to the individual student in choice of subject for themes and in method of treatment, and especial help is given to contributors to the different undergraduate publications. Though the primary aim of the course is to impart the ability to write simple, forceful English, the attempt is also made to increase the student's knowledge of the best English prose and to enable him to criticise it intelligently.

#### FOREIGN LANGUAGES

*German*: Professor CORWIN, Assistant Professor GLASCOCK, Dr. THORSTENBERG, Dr. A. G. WARD, Mr. LOVELL.

*French*: Professor CLARKE, Assistant Professor LUQUIENS, Mr. ROBBINS, Mr. J. P. RICE, Dr. GARVER.

*Spanish*: Assistant Professor LUQUIENS.

German and French are studied for two years. That language which the student offers at his examination for entrance is studied until the end of Junior year. The other language is begun at the opening of Junior year and studied until the end of the course. Thus each student has either German or French during Freshman and Senior years, and both languages during Junior year.



Members of the Mining, Metallurgical, and Select courses may, upon presentation of satisfactory reasons, substitute the two-year course in Spanish for that language which would naturally begin at the opening of Junior year. Petitions for this substitution must be presented before June 1 of Freshman year. Petitions from members of other than the above-named courses will be considered only under exceptional circumstances.

**GERMAN**—This department has a twofold purpose, to prepare the student to use the language easily and intelligently for those purposes which his course may require, and to supplement the practical training of his special studies by securing some of the important disciplinary results of linguistic and literary study. A systematic and thorough study of the structure of the language is made the point of departure and essential basis for all work. This consists chiefly in the study of assigned texts, in written and oral translation into German, in translation at sight and in constant reading aloud, with the ultimate purpose of making the rendering into English unnecessary. In the work of translation careful attention is given to exactness and form of expression, and the student is made acquainted with the resources of his own language. The subjects of derivation, composition, and the relation of German and English are systematically studied with reference both to their practical aid in the acquisition of a vocabulary and to their scientific value in the establishment of correct ideas of the nature and growth of language. While it is not a primary aim, the course seeks to lay the foundation for the colloquial use of the language by imparting a familiar knowledge of grammatical forms, by the reading aloud of German texts, both by instructor and student, and by oral exercises based on the reading of the day.

The cycle of texts used differs somewhat with each class. The plan is to familiarize the student with some of the best specimens of modern prose and poetry, aiming in this selection to introduce him to a sufficient number and variety of works to overcome the usual difficulties of style and vocabulary, and give him some insight into the most important phases of German life and literature. With the more advanced divisions, towards the end of the course, some masterpiece of German literature is critically studied, and incidentally some knowledge is gained of the history and present state of German literature.

Opportunity for advanced or special work is offered as occasion requires. During the year 1908-09 a course in conversational German is given by the exchange teacher who has been detailed to this University by the German Minister of Education.

**FRENCH**—The chief purpose of the instruction in French is to give a ready and accurate reading knowledge of the language, such as will be of use to the student in scientific or other investigation, both while in the University and in after life. At the same time, most careful attention is devoted to imparting a correct pronunciation and to colloquial forms, so that in case of foreign travel or subsequent study of French no time need be lost in the repetition of elementary work. The value of the course as a disciplinary drill and as a means to general culture is always kept clearly in view.

With those beginning the subject, the work consists of a thorough drill in elementary grammar, without which no accurate translation is possible. Some continuous text of interesting character is taken up early in the first year. Then follows translation of representative authors, generally modern, alternating with prose composition, further acquirements in grammar, and such attention to the Latin origin of the language as may help to fix vocabulary in mind.

Students offering French at entrance are assumed to have been sufficiently grounded in the rudiments. They, therefore, are required to read a somewhat greater amount of text, including specimens of the classic period. With both categories of students attention is given to scientific French of a general nature, and its vocabulary is especially impressed.

At the discretion of the instructor, students sufficiently advanced are admitted to a course of reading, known as Higher French, which will familiarize them with the representative authors of the seventeenth, eighteenth, and nineteenth centuries. Some outside reading is required and a short series of lectures on French Literature is given for members of the course and for such other students as may be interested. While a dry list of names and dates is avoided, a connected account of the development of French life and letters and of the salient literary periods is presented.

**SPANISH**—The aim of this course, which extends through two years, is to give those students who are looking forward to work in Mexico, the West Indies, or the Philippine Islands, the ability to read modern Spanish easily and accurately, in order that later they may be able to put this power to a practical use, either as an aid in business affairs, or as a solid foundation for the attainment of speaking power.

The Hills and Ford Spanish Grammar is used. As soon as the first elements of grammar are mastered, reading is commenced, and thenceforth throughout the first year each lesson is a combination of grammar work and reading of modern authors. A good pronunciation is insisted upon, inasmuch as it aids greatly in the acquirement of a vocabulary, and will also be of practical use in case of travel or residence in Spanish-speaking countries.

During the second year the reading work is supplemented by practice in composition. Especial attention is given to commercial Spanish, the students being exercised in the reading and writing of business advertisements and letters.

### MATHEMATICS

Professor P. F. SMITH, Dr. GRANVILLE, Dr. HEWES, Dr. LONGLEY, Dr. CONWELL, Dr. BILL, and assistants.

The studies in Mathematics are based upon thorough preparation in all mathematical subjects required for entrance. No review in any of these is given, but all students in the Freshman class begin at once the study of Plane Analytic Geometry.

For students in the ENGINEERING GROUP the work in mathematics for Freshman year is in Analytic Geometry, the Fall and Winter half-terms being devoted to Plane, the Spring half-term to Solid Geometry. The instruction is arranged to prepare for the courses in Junior year, and includes many elaborate exercises in drawing. The mathematical subjects for Junior year are Differential Calculus (Fall term), Integral Calculus (Winter term), and Theoretical Mechanics (Spring term).

The course in Mathematics for students in NATURAL SCIENCE is limited to sixty exercises in the Fall and Winter half-terms of Freshman year. So much of Plane Analytics is studied as is necessary for an understanding of Elementary Calculus, this topic being taught chiefly for the sake of its increasing importance to students of experimental and natural science.

Undergraduate instruction in mathematics in Freshman and Junior years is carried on entirely by recitations from the following textbooks:—*Elements of Analytic Geometry*, by P. F. Smith and A. S. Gale; *Elementary Calculus*, by P. F. Smith; *Elements of Differential and Integral Calculus*, by W. A. Granville.

Students are required to do a large amount of problem work in note-books made specially for this purpose. These books are handed in at each recitation for reading and correction by assistants. The aim of the instruction is primarily to train and drill the student so that he can acquire skill and facility in using mathematics as a tool. It is believed that the engineer should be a practical rather than theoretical mathematician.

A brief description of the special courses in Pure and Applied Mathematics follows:—

**GENERAL ASTRONOMY**—This course is designed to meet the needs of students interested in Astronomy. Practical work is included but the emphasis is laid upon the theory. The subject matter is the following:—(1) introduction to spherical trigonometry with applications to the transformation of coördinates on the celestial sphere, determina-

tion of the time of sunrise, etc. ; (2) determination of time, latitude and longitude from observations with the sextant, surveyor's transit, and meridian transit; (3) descriptive astronomy covering approximately the material contained in F. R. Moulton's *Introduction to Astronomy* or C. A. Young's *General Astronomy*; (4) applications of the calculus in the discussion of the theory of the heat of the sun, the potential and attraction of bodies, and the problem of two bodies.

**DIFFERENTIAL EQUATIONS**—This course consists of lectures and recitations on methods of solution and geometrical interpretation of ordinary and partial differential equations.

**HIGHER ANALYSIS**—In this course a variety of topics in Algebra and Analysis is presented in lectures, including the theory and applications of determinants, definite integrals, series, and the elements of the theory of functions of a complex variable.

**HIGHER GEOMETRY**—This course is based upon the Analytic Geometry of Freshman year, and includes lectures on systems of conics, elementary transformations, and various topics in Analytic Geometry of Three Dimensions.

**ADVANCED MECHANICS**—This course is a continuation of the Theoretical Mechanics of Junior year, and includes the dynamics of a system of particles and a rigid body.

The remaining courses under Course XIII are described elsewhere, under **SUBJECTS OF INSTRUCTION**.

All courses enumerated above are open to students in other courses properly qualified who may desire to take optional studies in mathematics. In addition a course of especial value to students in engineering, entitled Graphical Computation, is offered. This is a one-hour lecture course concerned primarily with the general theory of graphics. Students who wish to take optional courses should arrange at the beginning of the college year with the head of the department of mathematics.

## CHEMISTRY

Professors MIXTER, WELLS, CHITTENDEN, MENDEL, H. L. WHEELER ;  
Assistant Professors WALDEN, FOOTE ; Mr. COMSTOCK, Dr.  
JOHNSON, Dr. JAMIESON, Dr. JOHNS, Dr. DEAN, Dr. MATHEW-  
SON, and assistants.

The instruction in the various branches of chemistry is for the most part given in the SHEFFIELD CHEMICAL LABORATORY, the courses in Physiological Chemistry and Toxicology being given in the laboratory of physiological chemistry in the SHEFFIELD BIOLOGICAL LABORATORY.

**CHEMISTRY OF FRESHMAN YEAR**—There are two courses in chemistry offered to the members of the Freshman class :

(A) For those who do not offer chemistry as a subject for entrance, or who fail to show by their entrance examination special proficiency in this subject.

(B) For those who show by their entrance examination a sufficiently thorough preparation to warrant their entering upon advanced work.

A candidate may satisfy the entrance requirement in Chemistry without becoming eligible for the advanced course. Such students will pursue course A.

*Course A. Elementary Chemistry*—The exercises consist in recitations from a text-book, lectures, and laboratory work. The object of the experimental work is to facilitate the study, and to train the students in the observation of phenomena, and in manipulation. Notes are required and the students are questioned on the experiments.

A period of six weeks following the first four months' general instruction is especially devoted to lecture and class-room discussion of theoretical topics.

*Course B. Qualitative Analysis*—This course is designed to be the equivalent of the regular course in this subject given to the students in Chemistry, Mining, Metallurgy, and Mineralogy during the Fall term of Junior year. Toward the end of the year it will be supplemented by a short course of lectures and recitations on the essentials of Theoretical Chemistry.

The Juniors in the Chemical, Biological, Mining, Metallurgical, and Mineralogical courses who have satisfactorily completed the qualitative analysis of course B will begin quantitative work at the opening of the Fall term and thus be able to devote more time to special work later in the course.

**ANALYTICAL CHEMISTRY—Qualitative Analysis.** This subject is taken during the whole of the first term of Junior year in the courses in Chemistry, Metallurgy, Mining, and Mineralogy. The student spends at least fourteen hours per week in laboratory work, and the laboratory is open all day for the benefit of graduate students and others who desire to devote more time to the subject. There are also three class-room exercises per week, consisting of experimental and explanatory lectures, and recitations. In the courses in Biology and Zoology and Botany the work extends throughout the Junior year. Every effort is made to avoid mere thoughtless, mechanical laboratory work on the part of the student, and to give him an insight into the chemical principles involved in the processes studied.

There is probably no branch of chemical study as important as qualitative analysis in its use in developing the reasoning faculties, and enabling the student to generalize and to classify chemical phe-

nomena. Besides this, a practical knowledge is gained of methods which are applicable to scientific or technical researches.

**Quantitative Analysis**—This subject is pursued for a year or more in the Chemistry, Metallurgy, and Mineralogy courses, and for two half-terms of the Mining course. It involves fourteen hours per week of laboratory work as a minimum, supplemented by lectures and recitations. Analyses by both gravimetric and volumetric methods are carried out in the laboratory. The methods selected are such as appear to be most typical and important in their practical applications. Much attention is paid to accurate and skillful manipulation, and to the proper understanding of the scientific principles involved.

This general course of quantitative work is followed in the course in Metallurgy by Metallurgical Analysis, in which some of the important technical methods for the analysis of ores, slags, fuels, metals, alloys, etc., are learned practically.

**INORGANIC PREPARATIONS**—This is a course of laboratory work, with lectures and recitations, which gives experience in the preparation and purification of many inorganic compounds, illustrating important chemical principles as well as commercial operations. The student acquires practice here in working with larger quantities than in analytical operations, and has a different object in view, namely, to obtain good products without the necessity of avoiding slight losses of substance.

**CHEMICAL CALCULATIONS**—This subject is taught in close connection with quantitative analysis, for it treats chiefly of the arithmetical side of this work. An effort is made to develop the student's reasoning-power, and to make him quick and accurate in the use of figures.

**APPLIED CHEMISTRY AND GAS CALCULATIONS**—This course occupies two hours per week during the first term of Senior year, in the Chemistry course. Its object is to give familiarity with some of the more important chemical manufacturing processes, and also to familiarize the student with the applications of the laws of gases, particularly in practical calculations.

**SANITARY WATER ANALYSIS**—This subject is required in the course in Sanitary Engineering, and is optional for the students in Chemistry. It comprises a complete practical course of laboratory work, supplemented by lectures and recitations.

**GENERAL AND PHYSICAL CHEMISTRY**—This subject occupies three hours a week during the entire Senior year in the courses of Chemistry and Metallurgy. Smith's *General Inorganic Chemistry* is used as a text-book, and regular recitation work is supplemented by lectures as occasion demands. Special attention is given to the laws and theories which form the basis of chemistry; and a knowledge of elements, their compounds and their reactions is obtained as far as possible by using them to illustrate and explain the laws and theories.

**PHYSICAL CHEMISTRY**—Twenty lectures in this subject are given during the Winter half-term. The course is designed especially for graduate students in Mining but is open to undergraduates.

**PHYSICO-CHEMICAL MEASUREMENTS**—This subject includes laboratory practice in the more important methods of Physical or Electro-Chemistry. About twenty-five exercises of three hours each, in the second term of Senior year, are devoted to this subject. Opportunities for special laboratory work are given to students who are sufficiently advanced.

**ORGANIC CHEMISTRY**—The course in Organic Chemistry is a combination of text-book work with experimental lectures. The class, including the members of the courses in Chemistry and Biology, has three exercises weekly through the Junior year. Laboratory work in this department of Chemistry is required during the second term of Junior year and is required of the members of the Chemical course during the latter half of the second term of Senior year. Opportunity is also afforded for the carrying on of original investigations in this subject, either in connection with theses, or as a part of the regular work in the case of advanced students.

**INDUSTRIAL ANALYSIS**—An elementary course in this subject, consisting of twenty-five three-hour exercises, is given during five weeks in the second term of the Senior year. The object of this course is to familiarize the student with the chemical and microscopical methods of testing the most important industrial products. The materials studied include mineral, animal and vegetable oils, turpentine and rosin, sugars, starches, foods, fermentation products, tanning extracts, textile fibres, and paper.

To properly qualified students a more extended and complete course is offered, covering in addition to the subjects mentioned above, the analysis of boiler waters, lime and cement, alloys, fuels, waxes, paints and varnishes, tars, asphalts, pitches, wood preservatives, fertilizers, tanning materials, leather, glue, and rubber. This work involves a study of prices, methods of shipping, sampling, and sources of supply.

**PHYSIOLOGICAL CHEMISTRY and TOXICOLOGY**—For details regarding the courses in these subjects see p. 281. For reference to instruction on the chemistry of plants, consult p. 283, under Plant Physiology.

**METALLURGY**—This subject is included in the Chemistry course and in the course preparatory to Metallurgy. The class-room work consists of three exercises a week during both halves of the second term of Senior year. A text-book is used, but this is supplemented to a considerable extent by lectures. Particular attention is paid to the chemical principles involved in the processes used for the extraction of all the important metals from their ores. A short course on Metallurgy is included here.

**ASSAYING**—A series of lectures is given to the members of the Mining and Metallurgy courses on the fire-assay of ores, particularly those of gold and silver, and the students are required to take an extensive course of practical work in fire-assaying in the Hammond Metallurgical Laboratory.

**GAS ANALYSIS**—The more important methods of technical gas analysis are taught in a practical manner in connection with the study of metallurgical analysis in the course in Metallurgy. The students of the Chemistry course are also required to attend the lectures on this subject.

### ENGINEERING STUDIES

The work of instruction in the courses in Engineering is carried out in the well equipped laboratories, apparatus, engine and boiler rooms in WINCHESTER HALL and in the HAMMOND METALLURGICAL LABORATORY. WINCHESTER HALL was erected in 1892 by Mrs. Jane Ellen Winchester as a memorial of her husband, Oliver Fisher Winchester, one of the earliest friends and benefactors of the Sheffield Scientific School.

#### CIVIL ENGINEERING

Professor DuBois, Assistant Professors BARNEY, TRACY; Mr. FARNHAM, Mr. KIRBY, and assistants.

The School has leased a large tract of land in the town of Orange, on the line of the Derby Railroad, for the use of the classes in Surveying. The department is adequately equipped for the special work which it aims to teach.

**SURVEYING AND FIELD ENGINEERING**—A three weeks' course of practical instruction in field work is given in Junior year and a four weeks' course in Senior year. This instruction during the year 1909 for the Senior class begins on Tuesday, June 8, and for the Junior class on Monday, September 6.

In the Junior year, the three weeks before the beginning of the fall term are spent in uninterrupted work in the field. The course is then continued, three exercises a week, with lectures, recitations, and work in the drawing room.

Land, topographical, stadia, and city surveys are made, plotted, checked, traced, and blue-printed. Levels are run and profiles drawn. Special problems likely to occur in practice are taken up in the field and in the class-room. The field-work is arranged so that each student receives a thorough drill in the use of the instruments, including the transit and the level.



**DRAWING AND DESCRIPTIVE GEOMETRY**—Drawing is begun in the first term of Freshman year. In this year the students take isometric drawing with application to drawing from models and structures by measurements, shading, tinting, conventional use of colors, principles of orthographic projections, and practice in making simple working-drawings, 4 hours both terms.

The Drawing of Junior year, 16 hours both terms, includes Descriptive Geometry, the drawing of structures from measurement, and elements of design for simple structures. The instruction is by recitations, lectures, practical exercises, and models, and is under the charge of the Professor and Assistant in Civil Engineering. Included in the work of this year is also the mapping of surveying field-notes, 7 hours, first term.

In Senior year, the drawing consists of the mapping of the surveys of that year, and the designing of structures and finished drawings, designs, and estimates, under the charge of the Professor and Assistant in Civil Engineering, 6 hours both terms.

**RAILWAY ENGINEERING**—In the four weeks in June and July before the beginning of the first term of Senior year, a line of railroad is located and set out from a contour map previously obtained, grades and curves established and set out, and computations made. The theory of economic location is taught by lectures and recitations in connection with the field-work. The work is arranged so that each student has sufficient practice in all the various operations. The course is under the charge of the Professors in Civil Engineering, aided by several assistants.

**MECHANICS OF ENGINEERING**—Senior year, 6 to 8 hours, both terms. The method of instruction is by means of text-books in connection with lectures and solutions of practical problems in illustration of the various topics. The course includes thorough instruction in the strength of materials, the stability of foundations, retaining walls, dams and embankments, and masonry arches, by lectures and graphic methods. Questions of hydraulics, water-supply, the measurement of discharge, and the theory and construction of water-motors receive attention.

**CONSTRUCTION AND DESIGN**—Senior year, 4 hours second term. A thorough course is given in the determination of stresses and the detailed design of roofs, bridges, etc., with working-drawings, specifications, and estimates. Visits of inspection are made, and recitations and lectures held in connection with the work in the drawing room.

**ROADS AND PAVEMENTS**—This course consists of a series of lectures on the different methods of road and pavement construction and their adaptability to varying local conditions.

**ADJUSTMENT OF OBSERVATIONS AND ASTRONOMY**—This course covers the adjustment of the usual class of precise field observations by the method of least squares, together with the methods of determining time, latitude, and azimuth adapted to the sextant and field transit.

Students of Civil and Sanitary Engineering during the second half of the second term of their Senior year, and students in the course preparatory to the study of Forestry in their Senior year, have 4 hours per week including practical experience in the determination of time, azimuth, latitude, longitude, etc.

Reference to the instruction in **MASONRY** and in **SPECIFICATIONS** is made on p. 275.

#### **MECHANICAL ENGINEERING**

Professor **RICHARDS**, Assistant Professors **LOCKWOOD**, **MARSHALL**; Dr. **SHEPARD**, Mr. **LILLEY**, Mr. **NORTH**, Mr. **SEWARD**, and assistants.

**THERMODYNAMICS (Junior Year)**—Instruction is given by recitations and lectures on the mechanical theory of heat and the application of the theory to the discussion of the behavior of steam, air, and explosive gases as they are used in the production of power. The principles involved in the action of refrigerating apparatus are also discussed.

**PRINCIPLES OF MECHANISM**—This is a course in applied Kinematics. Instruction is by text-books and lectures, illustrated by diagrams and models, an extensive collection of which belongs to the School and is accessible to the student.

**DESCRIPTIVE GEOMETRY** is taught in the draughting room by lectures and recitations and by exercises at the drawing board, where problems are solved graphically by the student. Applications of the principles are made to the representation of intersections of curved surfaces, the penetrations of solids and the envelopes of solids which penetrate each other.

**DRAWING (Junior Year)**—The exercises in drawing are at the drawing board, where instruction is given to the student, individually, in methods of designing and representing machine elements and simple apparatus. Text-books, models and cartoons are used representing examples of approved practice.

**SHOP-VISITING**—The student, accompanied by the instructor, is employed in studying machinery in use and in process of construction in different machine-shops in the city. He is required to make satisfactory, carefully dimensioned sketches, from measurements taken by himself, of the complete machines and their parts, and to describe the tools and mechanical operations used in producing the simpler pieces.

**APPLIED MECHANICS (Junior Year)**—The Mechanics of Machinery is the dominant subject of this course, and much attention is given to the solution, by graphical methods, of problems relating to link work

in which the forces acting upon the mechanism are taken into account and the angular velocities of the links determined.

**MECHANICS (Senior Year)**—This course comprises a continuation of the analytical treatment of mechanical principles to which the Theoretical Mechanics of the Junior year relates ; but the subject is carried into advanced fields, and numerous applications to practical problems are made, special attention being given to those in which the friction of mechanisms is taken into account.

**STRENGTH OF MATERIALS**—This is a course on the theory of the subject as applied to the strength and elasticity of structural elements such as riveted pieces, beams, columns and shafts, and to the strength of boilers and pipes. Demonstrations of the operation of testing machines are given in the testing laboratory.

**STRESSES IN STRUCTURES**—Graphical and analytical methods for determining stresses in the members of simple framed structures such as roofs, cranes, etc., are taught in this course.

**MACHINE DESIGN**—The course in this subject consists chiefly in practical exercises at the drawing board, and partly in lectures on the functions of machines and the mechanical principles which are applied in determining the proportions of machinery. The student, under the guidance of experienced instructors, is employed in making complete working-drawings of machines, many examples of which are in the drawing rooms and the basements of the School. He does not copy the examples, but is required to change the dimensions and in many cases to alter the design, and is ultimately taught to make partly new designs of important machinery, such as cranes, yacht engines, machine tools, boilers, etc. The discipline the student receives is such as he would obtain in the drawing office of an engineering establishment, while he is also carefully instructed in the theory of the subject he deals with, and in the practical bearing of all his work.

**STEAM ENGINEERING AND HEAT ENGINES IN GENERAL**—Recitations and lectures on these subjects relate to the application of thermodynamics to the discussion of practical problems presented in the design of steam, hot air and gas engines, and deal with the mechanical principles involved in the mechanism of such engines. The study of steam boilers follows that of engines.

Indicator practice affords opportunities to the student to apply the indicator to various engines in operation and gives him experience in reading indicator cards, measuring them by the planimeter and computing indicated power. Complete Boiler Tests, in connection with Indicator and Brake Tests of an engine, all conducted by the students themselves, form part of the course.

**HYDROSTATICS AND HYDRODYNAMICS**—This course deals, by lectures, recitations, and drawing exercises, with the theory of the subject and

with its application to practical problems, a special example of which is the determination of the displacement of ships and of the power required to propel them. The study of water wheels and turbines receives special attention.

In the laboratory, experiments upon the flow in channels and pipes and through apertures, and tests of the power and efficiency of small water wheels and turbines, are made by the students. In this connection, correct methods of measurement are carefully taught.

#### MUNICIPAL AND SANITARY ENGINEERING

Professor DuBois, Assistant Professors BARNEY, TRACY; Mr. FARNHAM, Mr. KIRBY, and assistants.

The instruction in the subjects pertaining directly to Municipal and Sanitary Engineering is given in the lecture rooms and laboratories of WINCHESTER HALL, with the exception of the chemical and bacteriological studies. The latter are taught in the SHEFFIELD CHEMICAL LABORATORY and in the Bacteriological and Hygienic Laboratory in SHEFFIELD HALL. With reference to the work in Surveying, more detailed statements will be found in the description of the studies in Civil Engineering.

**DRAWING**—In addition to the drawing of the Freshman year, instruction in Descriptive Geometry, by recitations and the graphical solution of problems on the drawing board, is given in the Junior year, personal instruction being given to each student. Included in the work of both Junior and Senior years is also the mapping of all surveys made by the class, and the bridge drafting.

**FIELD ENGINEERING**—The entire available time for three weeks in Junior year and four weeks in Senior year is devoted to a course of practical instruction in field work. This course during the year 1909 for the Senior class begins on Tuesday, June 8, and for the Junior class on Monday, September 6.

In Junior year the work covers the use and adjustment of instruments, the making of land, topographical, stadia, city surveys, and leveling. The field work is so arranged as to give each student a thorough drill in the use of the instruments. In the second term of the year a course consisting of lectures and recitations is given dealing with the calculation of earthwork and with track work, giving especial attention to street railway requirements.

In Senior year a system of triangulation is laid out over a convenient watershed and with this as a basis a topographical and hydrographical survey is made; all the principal methods for locating

topographical or other details, as by transit, stadia, or plane table, being employed in different parts of the work, the leveling being done with the Y-level, hand-level, and vertical angles. A portion of the time is also devoted to staking out curves, switches, etc., with especial reference to street railway requirements. The work is arranged so as to give each student sufficient practice in each of the methods employed under the immediate supervision of an instructor and then to throw him gradually upon his own responsibility.

In the course in Forestry the work in Surveying at the Summer Session of the Yale Forest School, at Milford, Pa., may be substituted for the requirement in Field Engineering.

**ROOFS AND BRIDGES**—The course of instruction in roofs and bridges consists of two parts; first, the computation of stresses in all the standard forms of simple roof trusses and bridge trusses by both the algebraic and graphic methods; second, the fundamental principles of design applied to beams, girders, floor-systems, riveted connections, pin-connections, railway trusses, highway trusses, and roof trusses.

Visits of inspection and lectures supplement the work in the drawing room, but the larger part of the time is spent by the student in actually computing and designing under the direction of the instructor.

**MECHANICS**—The method of instruction is by means of text-books in connection with lectures and solutions of practical problems in illustration of the various topics.

**WATER SUPPLY ENGINEERING**—This course treats of the varying quantity of water required by different classes of cities and towns, the methods of collecting and distributing the same, methods of judging its quality and its effect on the public health, sources of contamination and methods of filtration, and in connection with hydraulics the designing of pipe systems.

**HYDRAULICS**—The method of instruction is by means of recitations and lectures supplemented by illustrative experiments on the apparatus available. Special attention is given to questions in regard to the flow and discharge of streams, pipes, and sewers.

**SEWER DESIGN**—In this course instruction is given, by lectures, in the various methods of sewer design and construction suited to typical cases, illustrated by existing systems, and followed by requiring the student to design a system to meet simple requirements.

**SEWAGE DISPOSAL**—This subject is treated by lectures on the various methods adopted in practice with their results, considered both from an engineering and sanitary point of view, supplemented by visits to plants in operation in the immediate vicinity.

**MASONRY CONSTRUCTION**—The course includes instruction in the properties of the component materials, the details of the construction and calculation of the stability of foundations, retaining walls, dams,

and arches. Each student is also required to make the usual tests of cement and mortar.

**CHEMISTRY AND BACTERIOLOGY**—In these subjects practice is given in the chemical and bacteriological laboratories, the student is instructed in the methods of water analysis, and is taught to observe and identify the various organisms present in natural and contaminated waters; the main object being to give such instruction as will enable the student to interpret properly the results of water analysis.

**SPECIFICATIONS**—The laws governing the preparation of engineering specifications are outlined in lectures supplemented by recitations, and illustrative examples from the best practice are reviewed.

Reference to the instruction in **ADJUSTMENT OF OBSERVATIONS, ROADS AND PAVEMENTS, and ASTRONOMY** is made under the Studies of Instruction in **CIVIL ENGINEERING**, on p. 271.

#### **PHYSICS AND ELECTRICAL ENGINEERING**

Professor **HASTINGS**, Assistant Professors **BEACH**, **L. P. WHEELER**, **Dr. C. B. RICE**, **Dr. DADOURIAN**, **Dr. COOPER**, **Mr. PERRY**, **Mr. COOKSEY**, **Mr. BATES**, and assistants.

The instruction in these subjects is given in the lecture rooms and laboratories of **WINCHESTER HALL**.

**PHYSICS**—The course in Physics may be regarded as extending through the three years of undergraduate study, although after the first year the work, in accordance with the general plan of the institution, is so specialized that practically only engineering students find it within their reach.

In Freshman year all students attend lectures and recitations on General Physics throughout the year. In the recitations a text-book is used which covers the whole subject, as ordinarily understood, with rather unusual emphasis upon the elementary theory of mechanics, on account of its universal utility as well as its educational value. The subjects of Heat and Electricity follow in the order named. In these the aim is to impart a general philosophical knowledge of the phenomena and of the laws governing them rather than a knowledge of the methods used in laboratories of research and of the technical applications.

The subjects of Sound and Light are associated on account of their intimate relationship as sensations; thus, less obviously founded upon the basis of mechanics, they receive a different treatment in which more stress is placed upon the physiological aspects of the phenomena.

The lectures are especially designed to enable the student to become familiar by personal observation with nearly all of the phenomena of physics which have proved important in the development of physical theories.

A brief course in elementary laboratory work is given to classes in Biology in their Junior year. The following two courses are offered to students in Course XIII in Junior year.

*Sound and Light*—The phenomena of these branches of Physics are developed as consequences of the assumption of a wave motion as the cause of our sensations.

*Vectors*—The relations between directed quantities are developed with reference to their importance in Physics, rather than as a study of the analysis of Hamilton (quaternions) or that of Grassmann (*Ausdehnungslehre*). The later portion of the course involves a discussion of the theory of attractions and the electric field.

**ELECTRICAL ENGINEERING**—Although the General Physics of the Freshman year may be regarded as preliminary to all courses in applied science, it attaches itself more intimately to that in Electrical Engineering. The time in the Junior year, as far as it has immediate bearing on applied science, is spent in acquiring a necessary knowledge of mathematics and the means of employing such knowledge in the study of advanced Physics. The courses in *Theory of Heat* and *Theory of Electricity*, which together extend through the year, serve this purpose as also to enlarge the student's knowledge in these important fields.

In the Senior year, students who pursue Electrical Engineering, as well as such others as are properly qualified and apply for the privilege, have a thorough course in the physical laboratory, where they may become proficient in the command of all the more important instruments and methods used in measuring physical magnitudes. The theory and use of typical instruments are taught in a series of lectures simultaneously with the laboratory practice. This course is followed by one on the Theory of Electricity with special attention to the application of the science to the arts.

The later portion of the laboratory work is largely given to the study of electrical machinery such as is in actual use. This work is supplemented by a course on *Dynamo Construction*.

A course on the *Theory of Observations*, including the method of least squares as applied to physical investigations, is given every year. This is open to Graduate Students and to Seniors in Electrical Engineering.

The other subjects, such as: *Machine Design*, *Shop-Visiting*, *Steam Engine*, etc., which are taught in connection with the course in Electrical Engineering, are referred to under the subjects of instruction in **MECHANICAL ENGINEERING**, pp. 272 and 273.

### MINING STUDIES

Professors HAMMOND, RICHARDS, IRVING, HUNTOON, McCLELLAND and assistants.

The various studies more directly connected with Mining Engineering and Metallurgy are taught in the HAMMOND METALLURGICAL LABORATORY. This building, the gift of Professor John Hays Hammond (Sheffield Scientific School 1876), is devoted entirely to the subjects of Mining, Metallurgy, and Ore Dressing. It contains well-equipped laboratories and research rooms, as well as a departmental library and a museum illustrating the various features of the applied sciences. The laboratories have been planned to give a thorough training in the practical work of assaying and the treatment of ores.

The equipment in the assay department consists of individual desks, pulp balances, coal and gas muffle furnaces, and a sufficient number of bullion balances to accommodate a large class.

There are two ore-testing laboratories. The first is equipped with small dressing machinery consisting of jigs, classifiers, tables, and accessories. In this laboratory the theory of ore dressing will be exemplified. The second laboratory is equipped with large machinery where complete mill runs can be made, or the work of an individual machine can be studied under varying conditions of adjustment.

**ORE DRESSING**—This course includes lectures, recitations, and laboratory work. The lectures cover the general principles, theory of dressing, physical properties of minerals and the application of these properties in separations, the ordinary operations including hand dressing, crushing, sizing, jigging, classifying, and slime treatment. Typical dressing works are described and discussed so as to impress upon the student the necessity of different treatment with different ores.

The laboratory work will consist of sampling, panning of gold-bearing gravel, and studying the effect of crushing an ore containing brittle minerals. The latter will cover screen tests, hand picking, jigging, classifying, and slime treatment. Assays in this department will be made by vanning and fire assay.



**ASSAYING**—This course includes lectures, recitations, and practical work in the fire-assay of gold, silver, and lead ores. The students are instructed in the various methods of assaying used in practice and before completing the course will be required to make several determinations in one day on unknown ores. This latter is to prepare them for the requirements of practice.

The work in Field Engineering for the year 1909 begins on Tuesday, June 8, for the Senior year, and on Monday, September 6, for the Junior year.

Further details regarding the subjects of instruction will be found under the studies in **MECHANICAL ENGINEERING**, pp. 272 to 274.

### BIOLOGICAL SCIENCES

Professors **CHITTENDEN**, **MENDEL**, **EVANS**, **HARRISON**; Assistant Professors **RETTGER**, **COE**, **UNDERHILL**; Dr. **COLE**, Dr. **WOODRUFF**, Dr. **A. H. GRAVES**, Dr. **DEAN**, Dr. **KUNKEL**, Dr. **KIRKHAM**, and assistants.

The instruction in the various biological sciences is given in laboratories and lecture rooms located in the following buildings: **PEABODY MUSEUM**, containing the laboratories for Zoology and Paleontology, in connection with the extensive collections belonging to the Museum; **SHEFFIELD HALL**, containing the laboratories for Botany, Plant Physiology, Bacteriology and Hygiene, as well as the herbarium and botanical library of the late Professor Eaton, the Swan herbarium and the herbarium of Professor Brewer; **SHEFFIELD BIOLOGICAL LABORATORY**, in which are located the laboratories for Physiological Chemistry, Toxicology and Physiology (first floor), and the laboratories for General Biology, Comparative Anatomy, Morphology and Embryology (second floor). An experimental green-house is situated near by.

**ELEMENTARY BIOLOGY**—In Freshman year an introductory course in Biology is given to students of the Natural Science group. The course consists of lectures and laboratory work designed to acquaint the student with the structure, classification, functions, development, life histories, and evolution of animals and plants, as illustrated by special types. Attention is devoted to the study of protoplasm, cells, and unicellular organisms, including those which cause fermentation, putrefaction, and disease.

**ZOOLOGY**—*Invertebrate Zoology.* (a) A general course in the comparative anatomy of invertebrate animals, based upon the dissection

of a considerable number of types, supplemented by demonstrations of other forms, and occasional trips afield and to the seashore. Special attention is given to the structural adaptation of the animals studied to the conditions under which they live. Lectures at intervals serve to correlate the facts learned in the laboratory, the course as a whole thus giving a general connected idea of the structure and relationships of the invertebrates. Emphasis is laid on the habits of such as are of peculiar interest, economically or otherwise. This course is taken by students in the courses of Biology and Zoology and Botany.

(b) An advanced course, designed for those specializing in Zoology or Botany, dealing more particularly with the development (phylogenetic and ontogenetic) of certain groups. This course deals extensively with fossil forms, and is a suitable introduction or adjunct to the study of Paleontology.

**COMPARATIVE ANATOMY**—Instruction in this subject is given by practical laboratory exercises supplemented by illustrated lectures and demonstrations. Representatives of each of the five classes of Vertebrates are carefully dissected. The work done in the laboratory aims to give the student a first hand knowledge of the morphology of the Vertebrates which will serve as a basis for comparison of the groups. In the lectures, the classification of the Vertebrates and the comparative morphology of the various organ systems are discussed with special reference to the theory of evolution.

The course is designed especially for students preparing for medicine or for advanced work in anatomy and zoology.

**EMBRYOLOGY**—Lectures and demonstrations are accompanied by practical work in the laboratory. The development and structure of the sexual cells, the fertilization and cleavage of the egg, and the formation of the principal organs of the body are studied in various groups, both of invertebrates and vertebrates, but with special reference to the latter. The more important theories of heredity, sex determination, and histological differentiation are incidentally discussed.

**ENTOMOLOGY**—A practical course dealing with the insects injurious to forests is described on p. 291.

**PARASITOLOGY**—A general survey of animal and plant parasites (excepting the Bacteria). The relation of Protozoa to disease is considered in some detail.

**ORGANIC EVOLUTION**—Instruction is given to the Select course by means of illustrated lectures and written exercises during the first half of the Senior year. The course begins with a general study of the fundamental phenomena of living organisms, with special attention to reproduction and heredity. It includes also a consideration of the principles of inheritance and breeding, together with the structure, development, distribution, habits, and instincts of organisms and their

relation to their environment in the light of the Darwinian and later theories of evolution. The course concludes with a more detailed study of the structure of man, with a view to his proper position in a natural system of classification of animals and the application of the principle of natural selection to his evolution.

**HISTORY OF BIOLOGY**—Lectures on the development of the biological sciences from the earliest times to the present.

**GENERAL PHYSIOLOGY OF THE LOWER ORGANISMS**—The course will comprise a general survey of the physiology of the lower organisms, particularly the Protozoa, including the problems of general cell-structure, growth and regeneration, development, inheritance, origin of sex, and reactions to stimuli.

The Sedgwick-Rafter method of microscopical examination of water will be employed in the laboratory work, thus affording familiarity with a number of representative types of lower organisms, chiefly unicellular.

**ANIMAL BEHAVIOR**—Essentially a course in comparative psychology. It consists ordinarily of two lectures a week, though these periods are occasionally given over to demonstrations or simple laboratory experiments.

**PHYSIOLOGY**—Elementary Physiology, is taught by recitations, lectures, and demonstrations, being designed especially for Junior students in the Biological course. In Senior year a more extensive and detailed study is made of the physiology of nutrition—respiration, digestion, and metabolism—in connection with the study of physiological chemistry.

Opportunity is offered to advanced students for laboratory work in Experimental Physiology, in directions intended to familiarize the student with the problems and methods of scientific research in this domain. The more advanced students are kept in touch with progress in physiology by a physiological seminary.

**PHYSIOLOGICAL CHEMISTRY**—Physiological Chemistry is taught by laboratory exercises, illustrative lectures, and recitations. Each student is provided with a suitable working place in the laboratory, equipped with all needed apparatus and material. The regular course of work, designed especially for Senior students in the Biological course, extends through one year and embraces a thorough study of the chemical composition of the food stuffs and the various tissues and fluids of the body, together with a study of the chemical and physiological processes of respiration, digestion, secretion, excretion, and nutrition in general.

Beginning with a study of the proteins, the more important carbohydrates, and fats, the experimental work extends through the epithelial, connective, contractile, and nervous tissues. The various digestive

fluids are then studied, artificial digestions are made, and the products of digestive action isolated and examined. The blood, milk, and urine are next considered; and students are taught the applications of quantitative analytical methods to the problems of metabolism and to the identification and estimation of biological products.

**EXPERIMENTAL TOXICOLOGY**—In connection with a series of lectures and demonstrations on this subject given to Senior students in the Biological course, a portion of one term may also be devoted to a study of the chemical reactions of the more important mineral and organic poisons, and their physiological action is determined experimentally. Advanced students are also taught how to separate poisons from organic tissues and fluids, and to identify them, both by chemical and physiological reactions.

During the second term of Senior year, opportunity is afforded for the carrying on of investigations on some selected subject in either physiology, physiological chemistry or toxicology, in connection with the preparation of honor theses. To those who have the necessary qualifications to undertake original investigations, independently or under guidance, the facilities of the Laboratory of Physiological Chemistry and Physiology are available at all times.

**GENERAL BOTANY OF THE FLOWERING PLANTS**—Instruction in this course is divided into two periods. The first period, extending over the Fall term and Winter half-term, is devoted to the study of the structure of the Phanerogams. By means of typical examples, taken up in laboratory work and informal lectures, the student is familiarized with the various tissues and tissue systems, their physiological as well as morphological nature being fully discussed. In connection with this study, occasional tests are held, in which the material supplied has not been before studied by the class. This portion of the work leads to more complex anatomical studies, dealing with such subjects as the development of tissues from the meristem, the various types of bundles, the phylogeny of the vascular system, the formation of a cambium ring in woody plants, the development of wood and bast, the origin and development of cork, etc.

During the second period, extending through the Spring half-term, the work is of an entirely different character, the major portion of it being carried on in the field. Here the various families of the Flowering Plants are taken up in order, and their ecological and systematic characters studied by the class, with the aim of learning not merely the names of the plants, but especially their habits, uses, and interrelations.

**MORPHOLOGY OF PLANTS**—This course comprehends a general survey of the plant kingdom. Beginning with the lowest forms of plant life, a study is made in the laboratory of the various plant groups, suitable types being selected for this purpose. In this way the Algae,

Fungi, Mosses and Hepatics, Ferns, and Flowering Plants are taken up in succession ; and their structure, development, and mode of life studied and compared. An underlying purpose of the course is to enable the student to realize the basic principles of evolution as illustrated by the vegetable kingdom.

During the Winter half-term, in connection with the work on Fungi, considerable time is devoted to the study of such of the diseases of trees as are of fungous origin, the work in the laboratory being supplemented by occasional excursions to the forests about New Haven. Although this portion of the work is planned for those students intending to enter the profession of Forestry, it is also of interest and practical value to those who study it merely from a botanical standpoint.

For those who may desire to pursue the science professionally, the work is arranged to suit individual requirements, whether it be in the direction of morphology or systematic botany, as applied to either flowering plants or cryptogams.

**PLANT PHYSIOLOGY**—Instruction in plant physiology is offered to those students familiar with the elements of vegetable morphology and histology who possess some knowledge of physics and chemistry. An acquaintance with organic chemistry is also very desirable. Particular attention is devoted to such topics as the composition of the plant body, plant nutrition, the synthesis of proteids and carbohydrates, the distribution and significance of vegetable enzymes, and other features of metabolism. The experimental method is emphasized wherever practicable. Opportunity is offered for research work in plant physiology, especially with reference to its chemical aspects.

**BACTERIOLOGY AND HYGIENE**—Two courses of instruction are offered in these subjects. The first, briefer course, extends over a period of ten weeks, three afternoons each week, and is designed especially for students in Municipal and Sanitary Engineering. Particular attention is given to such topics as the bacteriology and the purification of water supplies.

The second or longer course covers a period of twenty weeks, fifty exercises. The work is particularly planned to suit the needs of students in Chemistry and Biology, and hence presupposes at least an elementary knowledge of those subjects. Practical instruction is given in the preparation of culture media, the cultivation of bacteria, staining and microscopic technique. The classification of a large number of non-pathogenic and pathogenic bacteria is made, and a careful study is also made of the relation of bacteria to the various industries and to disease. Considerable time is devoted to the study of diseases from the bacteriological and hygienic standpoint. Both

courses consist of laboratory work supplemented by lectures and recitations. Ample opportunity is afforded for original investigation.

**BACTERIOLOGY OF WATER AND SEWAGE**—A course of ten lectures, with demonstrations, given in the first term consists of a discussion of bacteriological methods and micro-organisms in their relation to the safeguarding of water supplies against dangerous pollution.

**PUBLIC HYGIENE**—In a series of twenty lectures given to Seniors in the course in Select studies special emphasis is placed on hygiene from the public health standpoint. Such topics as the following are presented: bacteria and other microscopic organisms in their relation to disease; the hygiene of tuberculosis, typhoid fever, etc.; the manufacture and use of vaccine virus and antitoxin; isolation and quarantine regulations; foods; and the hygiene of occupations and of dwellings.

### GEOLOGICAL SCIENCES

Professors **PIRSSON**, **SCHUCHERT**, **IRVING**; Assistant Professor **FORD**,  
Dr. **F. WARD**, Dr. **SURFACE**, and assistants.

Instruction in Mineralogy, Geography and the Geological Sciences is given in **KIRTLAND HALL**, a building donated by Mrs. Lucy W. Boardman, of New Haven, in memory of her uncle, the late Jared P. Kirtland, LL.D. The first floor is devoted to Mineralogy, and has a large fire-proof room containing the Brush Mineral Collection and Library, a lecture room, laboratories for research work in crystallography and mineral chemistry, and a large laboratory for determinative mineralogy. In 1904 Professor George Jarvis Brush gave to the Trustees of the Sheffield Scientific School his private collection of minerals, his mineralogical library, and a fund to provide for their growth and maintenance, thus placing the department in possession of a wealth of material for study and investigation.

The second floor of Kirtland Hall is devoted to Geology and has a lecture room, laboratories for geological and petrographical research, and a room containing the library and petrographical collection. The lecture room for Geography and the rooms containing the collections and library together with the laboratory of Economic Geology occupy the third floor. The instruction in Anthropology is also given on this floor. All of these varied

departments are amply equipped with the collections, libraries, and apparatus necessary for instruction and the most advanced research work.

The instruction in Historical Geology and Paleontology is given in PEABODY MUSEUM, and the large and important collections of the late Professors O. C. Marsh and C. E. Beecher are available for this purpose, as well as for the use of advanced students under the direction of the professor in charge.

**GEOLOGY**—The course in Geology includes recitations, lectures, and oral instruction, extending through the year. During the first term the recitations are attended by the entire Senior class, except those in the Mechanical Engineering, Electrical Engineering, and Select courses. This part of the course includes Structural and Dynamical Geology and is illustrated by maps, lantern views, photographs, diagrams, and specimens.

During the Winter half-term the Seniors in the Civil Engineering course and in Forestry continue the work of the first term with a short course in stratigraphic, economic, and historical geology.

**HISTORICAL GEOLOGY AND PALEONTOLOGY**—During the Winter half-term the sequence and distribution of the sedimentary formations are studied, together with the introduction and succession of the various types of life during past geological ages. This part of the course is pursued by the Seniors in Mining, Metallurgy, Mineralogy, Chemistry, Biology, and Zoology and Botany. Suitable collections of rocks, fossils, lantern views, etc., are used to illustrate the subject.

Opportunities are afforded for geological excursions during the warmer months. Additional and advanced work in geology, petrology, and paleontology is offered in the list of graduate courses.

**ECONOMIC GEOLOGY**—The course in Economic Geology is given to the Senior Mining Engineering, Metallurgical, Chemical and Mineralogical divisions during the Spring half-term following directly after the course in Historical Geology. Instruction is given chiefly by means of lectures, which are illustrated by the use of lantern slides and by specimens from the collection of Economic Geology. The course includes a discussion of the general features of ore bodies, with the theories of their formation, together with descriptions of the most important and typical ore occurrences in North America. The occurrences and uses of the non-metallic minerals are also described.

**ELEMENTARY PETROLOGY**—A series of lectures of an elementary nature and without the use of the microscope, on the history, origin, and classification of rocks with especial reference to their geologic relations



and economic properties, is given, one hour a week, in the second term. This course is illustrated by collections and by practical exercises in the laboratory, and, while required in the courses in Mining, Metallurgy, and Forestry, it is offered as an optional to all students in the Senior class and in graduate courses who may desire to take it.

**SOILS**—A series of ten lectures, illustrated by specimens, diagrams, etc., on the origin, characters and properties of soils. Supplementary reading is required. This course is given in the Winter half of the second term for the benefit of the students in Forestry.

**MINERALOGY AND CRYSTALLOGRAPHY**—Instruction in Mineralogy in the courses in Chemistry, Metallurgy, Civil Engineering, Mining, Zoology and Botany, Mineralogy, and Forestry, is carried on by means of both lectures and practical work in laboratories especially fitted up for the purpose, the methods of instruction being such that students acquire familiarity with the common minerals, by making chemical and physical tests upon them, as also by seeing and handling a large number of typical specimens. Attention is devoted especially to those species which are of economic, geological, or scientific importance. To better understand and appreciate the chemical aspects of the subject, students are first made familiar with the simple chemical tests and blowpipe reactions which are best adapted for testing minerals, and later this knowledge is applied to the determination of unknown species. Students have free access to a labeled collection of carefully selected, typical mineral specimens, where the crystallization and other physical properties of the different species may be studied, and where comparisons may be made with specimens which have been determined. There are also extensive unlabeled collections for study, arranged especially to give students practice and facility in the correct identification of minerals. In addition to laboratory work, instruction is given in Crystallography, illustrated by collections of models and natural crystals. Lectures in Descriptive Mineralogy are illustrated by the extensive collection presented by Professor Brush. The laboratories are provided with apparatus for the thorough chemical and physical investigation of minerals and with an extensive library to which students have access. The laboratories are open seven hours each day to accommodate any who desire to devote more time to the subject than is laid out in any of the prescribed courses.

**PHYSICAL GEOGRAPHY**—This course includes a general study of the type features of continents and ocean basins, as to origin and distribution. Greater emphasis is given to the discussion of geographic situation, climatic control, soil adaptation, the distribution of plants and animals, and the methods by which man has utilized or degraded the natural resources. Each topic is considered with reference to its geographic significance, economic control, life response, and future pos-



sibilities. For purposes of illustration the student is made acquainted with the dominant features of the earth, but special attention is devoted to the geography of North America.

This subject, followed by Commercial Geography during the second half year, constitutes a continuous course. The instruction is by text-books, maps, relief models, lantern views, recitations and lectures.

### SOCIAL SCIENCE AND HISTORY

Professors CALLENDER, KELLER, ABBOTT.

GOVERNMENT—The object of this course is to give the student a general knowledge of the governmental machinery of Great Britain and the United States as the two great examples of popular government—the one of the cabinet form, the other of the presidential. Attention is directed chiefly to the actual working of government rather than to the historical development of political institutions, with the view of giving the student some understanding and appreciation of the practical problems of government as they exist in this country at present. The instruction is given by means of text-books, supplemented by lectures and assigned reading in various books on selected topics. The text-books used this year are Moran's *The English Government*, Bagehot's *English Constitution*, and Bryce's *American Commonwealth*.

The course in American history serves as a preparation for this course.

ECONOMICS—The work in this subject is designed primarily to explain the social process by which wealth is produced in a modern community and distributed as income among the different individuals and classes. The social organism so far as it has to do with this process is described in detail and the relation of actual business activity to the process pointed out, to the end that the student may recognize and understand the working of cause and effect in the business world. A secondary purpose is the training of his mind in economic reasoning. One text-book is read in part by the student and thoroughly discussed in class. This is supplemented by assigned reading in several other standard works on the general principles of Economics. The text-book used this year is Seligman's *Principles of Economics*, supplemented by Mill's *Principles of Political Economy*. Selected topics, such as money, banking, public finance, trusts, transportation, and labor problems, are then treated more in detail, with a view of giving the student a knowledge of the more important current economic questions. A small library, containing the principal authorities on these subjects, has been provided, in order that the students may be able to familiarize themselves somewhat with the literature of the subject. These books may be used by the student in the reading room of Byers Memorial

Hall. The instruction in the latter part of the course is given partly by means of text-books and partly by lectures.

**ANTHROPOLOGY**—This subject occupies two hours per week in the Select Course, during the Junior year. In connection with comprehensive text-books such subjects will be studied as the antiquity of man, the relation of man to other animals, racial differences, language, the arts of life, the spirit world, etc. Lectures will briefly outline the earliest forms of the industrial organization, marriage and the family, property, religion, and government. The anthropological collections of Peabody Museum and other illustrative material will be utilized as far as practicable. Outside reading will be assigned to those desiring it.

**SOCIAL EVOLUTION**—This subject follows directly upon Organic Evolution (p. 280), the two constituting in reality a single, unbroken course; it occupies three hours a week for the second half of the second term in Senior year. It is designed to treat of the applicability to man and to human society of the ideas and principles derived from the study of Organic Evolution. The topics include: human variation and heredity, selection, the struggle for existence, counter-selective factors, "eugenics," etc.; and the evolutionary system in its application to the institutions of society. Lectures and collateral reading.

**COMMERCIAL GEOGRAPHY**—The course in Commercial Geography is based on the course offered in Physical Geography during the first half year. Brief attention is devoted to the origin of commerce, and its character as engaged in by primitive peoples; followed by a general discussion of the necessary requisites for commercial progress. The chief aim is to familiarize the student with the conditions of production and trade: first, in the countries which represent the greatest extremes of geographic environment; and second, in the countries most important in the world's commerce. A detailed map study is required of the great producing zones, the important land and sea trade routes, and the strategic centers with reference to commercial supremacy. The present status of the foreign and domestic commerce of North America and South America, the trade relations between the United States and South American countries, and the evolution and adjustment of trade between the United States and her outlying possessions, are subjects for special study. Some practice is given in methods of tabulating, charting and mapping.

**HISTORY**—Two courses in History are given to the students in the Select Course, one in European History during the Junior year, and one in the History of the United States in the Senior year, outlines of which are given below.

**I. *European History***—The work of the Junior year is devoted to the study of some of the more interesting and important movements and epochs in European History since the fall of Rome, such as the Bar-

barian Invasions, the Rise and Development of the Medieval Empire, the Growth and Importance of the Medieval Church, the Crusades, Feudalism, the Rise of Nationalities, the Renaissance, the Reformation, the French Revolution, etc. Very little effort is made to give a continuous chronological outline of the periods studied. Facts and dates are stressed only so far as they are considered advisable for a better comprehension of the subject matter in hand. The principal aim of the course is to stimulate the student to become acquainted with books which will prove of permanent interest and profit, to so acquaint him with some chapters in the history of Europe as to inspire him to read others for himself and to equip him to understand more intelligently the life of present-day Europe.

The following books form the basis of the work: Emerton's *Introduction to the Middle Ages* and *Medieval Europe*, Robinson's *Readings in European History*, Adams' *Civilization during the Middle Ages*, Adams' *Growth of the French Nation*, Robinson's *History of Western Europe*, Robinson and Rolfe's *Petrarch*, Emerton's *Erasmus*, Henderson's *French Revolution*, Johnston's *Napoleon*.

II. *History of United States*—The work of the Senior year is devoted to the study of some of the more important phases of the political history of the United States. By the way of introduction, a somewhat thorough study is made of the causes of the American Revolution, the new political ideas which it emphasized, the types of leaders which it produced. The general character of the course is indicated by the following books, which are used as a basis for the work: W. E. H. Lecky's *American Revolution* (Woodburn ed.), Fiske's *Critical Period of American History*, Walker's *The Making of the Nation*, Channing's *The Jeffersonian System*, Schurz's *Henry Clay*, MacDonald's *Jacksonian Democracy*, Smith's *Parties and Slavery*, Morse's *Abraham Lincoln*, Dunning's *Reconstruction, Political and Economic*.

Definite provision has been made in Byers Memorial Hall for a working library in these courses which will make assignments in a wide range of books possible.

#### FORESTRY

Professors GRAVES, TOUMEY, PINCHOT; Assistant Professor CHAPMAN, Dr. A. H. GRAVES, Mr. HAWLEY, and assistants.

The instruction in the various subjects related to Forestry is given in the lecture rooms and laboratories of the SHEFFIELD SCIENTIFIC SCHOOL and in MARSH HALL, the School building of the Yale Forest School located in the Yale Botanical Garden. Supplementary work is conducted in the woodlands of New Haven and vicinity, as

well as at Milford, Pa., during the summer session of the Yale Forest School.

For the course in Field Engineering, at the end of Junior year, described on p. 270, the work in surveying at the summer session of the Yale Forest School, at Milford, Pa., may be substituted.

The best training in Forestry is obtained by taking two years of professional study at the Forest School after finishing the preparatory course in the Scientific School. Such students not only have the advantage of an excellent preparation for the technical work in Forestry at the Forest School, but, having anticipated in the Scientific School certain subjects of the Junior year of the Forest School, they are able to take the advanced optional work which is not available to the average member of the Senior class of the Forest School. It is possible, however, to complete the work in the Forest School in one year after graduation from the Sheffield Scientific School by spending two summers at Milford, Pa., and by taking several optional courses at the Forest School in the Senior undergraduate year, under the following conditions: (*a*) the student must take the first Summer term at Milford at the end of his Junior year; (*b*) he must take the lectures in silviculture at the Forest School in the Fall and Winter, and the courses in state forest law and forest economics in the Winter half-term of his Senior year; and (*c*) upon graduation he must take a second Summer term at Milford to complete his field work in silviculture. This privilege is granted only to those students who are without conditions at the end of their Junior year.

**FOREST BOTANY**—Instruction is carried on entirely in the field, and consists of excursions to the fields and forests in the region about New Haven, where the woody plants that are indigenous and also those common in cultivation are studied in their natural condition. In this work the trees and shrubs are taken up in succession, according to their botanical classification, and especial attention is devoted to the characteristics by which they may be recognized at any season

of the year. The student is, moreover, familiarized with the habits and uses of each species and with the range of its occurrence in the United States. Frequent practical tests are held in the field to give the student practice in the recognition of the various species.

This course, although designed especially for those intending to enter upon the study of Forestry, may be profitably taken by all who desire a knowledge of the characteristics of our trees and shrubs.

**DENDROLOGY**—A course consisting of illustrated lectures dealing with the characteristics of the important timber trees of the United States. Since the course is intended especially for those entering upon the study of Forestry, attention is given not only to the distribution and botanical characteristics, but especially to the silvical features, of each species.

**DISEASES OF TREES**—In connection with the course in Morphology of Plants (p. 282), instruction is given in the subject of Diseases of Trees, by means of lectures, laboratory work, and excursions.

**SILVICULTURE**—During the Fall term a study is made of the forest and of the elements which enter into its composition. The lectures discuss the principles underlying the life history of trees, the conception of forest types, and the methods employed in studying the silvical characteristics of trees and of forests. During the remainder of the year attention is given to the treatment of woodlands, the lectures considering the principles of maintaining forests by means of skillful cuttings, the various systems of forest management, and the practical silvicultural problems in American forest regions. The work in Forestry already accomplished in the United States and Canada is also described.

**FOREST SEEDING AND PLANTING**—The course includes a careful study of tree seeds with respect to their structure, dissemination, vitality, etc., and the methods of forest seeding and planting. The field work is devoted to practical exercises illustrating the various methods of seeding and planting, and attention is also given to the planting and care of trees in streets and parks.

**FOREST ENTOMOLOGY**—A practical study of such groups of insects as are of economic importance in the management of forests and in the utilization of forests products. It is expected that the student will become familiar with the structure, habits, and life histories of the more injurious species, as well as with such predatory and parasitic insects and other organisms as naturally limit their increase. This work is accompanied by a discussion of the methods by which the attacks of insects upon trees, lumber, and finished products may be most successfully controlled.

**STATE FOREST LAW**—A study of the forest laws of different states with particular reference to forest protection and forest reserves.

**FOREST ECONOMICS**—A course of lectures and recitations covering the relation of the conservation of forests to the public welfare. It outlines the forest problem of the United States, the extent and character of our forests, their influence in the national economy, the results of their destruction, and the progress of forestry in the United States.

**FOREST HYDROGRAPHY**—A course of lectures considering the variations in the flow of streams, giving particular attention to irrigation economics, and to the work of the Reclamation Service of the United States Geological Survey in the construction and administration of irrigation systems in the arid West.

**FOREST POLICY**—A course of lectures describing the origin of forest policy, its objects and principles; legislation and its causes before 1891, and from 1891 to 1903; national organization in Forestry; the forest and other land laws in relation to economic and industrial development; and State forest problems.

## GENERAL INFORMATION

### DEGREES

Students of this Department, on the recommendation of the Governing Board, are admitted by the Corporation of Yale University to the following degrees, which are publicly conferred by the President and Fellows of the University on Commencement Day :

1. **BACHELOR OF PHILOSOPHY** : This degree is conferred on those who complete any of the three-year courses of study, passing all the examinations in a satisfactory manner.

2. **MASTER OF SCIENCE** : The requirements for this degree are stated on page 214.

3. **CIVIL ENGINEER, MECHANICAL ENGINEER, AND MINING ENGINEER** : The requirements for these degrees are stated on pages 216 to 219.

4. **DOCTOR OF PHILOSOPHY** : The requirements for this degree are stated on page 214.

### GOVERNMENT AND DISCIPLINE

All routine questions relating to the discipline of the student body are acted upon by a Committee on Discipline, responsible to the Governing Board and other Professors and Instructors, who form the General Faculty of the School.

Each class is presided over by a special Faculty consisting of a Class Officer and such others of the teaching force as are engaged in the instruction of members of the class. The function of the Class Faculty is to superintend the general and individual progress as well as conduct of the class under its charge, and to recommend to the General Faculty, at convenient intervals, such measures as seem expedient.

Every student is provided at the opening of each scholastic year with a copy of the Regulations of the Sheffield Scientific School. These contain all necessary information regarding scholarship requirements, deportment, attendance, etc.

The classes are divided into small sections, each of which is supervised by an instructor, called its Division Officer, whose duty is to advise or direct the members of his Division desiring to consult him, and through whom the student addresses all communications to the Faculty.

#### TERMS

For purposes of administration and instruction the scholastic year is divided into two terms, the first extending from the beginning of the year to the Winter Vacation, and the second from the end of the Winter Vacation to Commencement. The second term is subdivided into two equal parts, the Winter half-term and Spring half-term.

#### EXPENSES

The TREASURER'S BILLS are made out and delivered to the students three times a year, viz: at the beginning of each term or half-term, at which time they are payable. The annual charge for tuition for undergraduate students is one hundred and fifty dollars. An additional charge of six dollars for each term or half-term is made for incidentals, including the use of libraries, public rooms, gymnasium, etc. The student in the Chemical, Metallurgical, Mining, and Biological Courses has an additional charge of fifteen dollars per term, or half-term, for chemicals and the use of apparatus in the chemical and metallurgical laboratories. He also supplies himself at his own expense with special apparatus and materials, the cost of which should not exceed ten dollars a term.

For the summer courses in surveying of the Junior and Senior years a fee of fifteen dollars is charged each year.

For graduate students the charge for tuition is one hundred dollars per year.

The fee for graduation as Bachelor of Philosophy, including the fee for Commencement Dinners, etc., is ten dollars unless the person taking the degree is also an Academical graduate, when it is five dollars.



## BUILDINGS

### LABORATORIES AND RECITATION HALLS

The buildings in which the work of instruction in the Scientific School is mainly carried on are: Sheffield Hall, North Sheffield Hall, Sheffield Biological Laboratory, Winchester Hall, Kirtland Hall, Leet Oliver Memorial Hall, Sheffield Chemical Laboratory, and Hammond Metallurgical Laboratory. Instruction in mineralogy, physical geology, petrology, and physiography is given in Kirtland Hall; in zoology and historical geology in the Peabody Museum, and in free-hand drawing in the Art School; while instruction in forestry is given at the Yale Forest School. Winchester Hall is intended chiefly for the engineering sections, containing appliances and machinery for their special use. Sheffield Hall, in which the administrative offices of the School and the laboratories for botany, plant physiology, and bacteriology are situated, affords also a number of recitation rooms. The majority of such rooms devoted to mathematics are in North Sheffield Hall, while Leet Oliver Memorial Hall is used for English, foreign languages, history, and economics. The names of the other buildings indicate their respective purposes. These buildings contain a large number of recitation and lecture rooms, halls for public assemblies and lectures, chemical, physical, biological, physiological, and metallurgical laboratories, besides studies for some of the professors, where their private technical libraries are kept.

### BYERS MEMORIAL HALL

This building, a gift from Mrs. Martha F. Byers, of Pittsburg, Pa., in memory of Alexander MacBurney Byers, the husband of the donor, and their son, Alexander MacBurney Byers, Jr., a graduate of the School in the class of 1894, is used for promoting the social and religious life of the Sheffield Scientific School, and provides the comforts of a social club for all Scientific School students.

The basement floor contains billiard rooms, lunch room, toilet-rooms with shower-baths, and a publication office for the *Scientific Monthly*. On the main floor of the building is a library and reading room, while on the opposite side of the hall is a large social room, adjoining which is a coat room, office, etc. On the second floor are the rooms of the Young Men's Christian Association of the Sheffield Scientific School, with an assembly hall for the various needs of the student-body. The upper floor of the building is given up to students' rooms (fourteen in number), arranged around a large sitting room, thus constituting a small dormitory.

The building is administered under the advice of a board of six members, three from the Governing Board of the School and three from its graduates outside of this Board, chosen for their sympathy with the objects of the building and understanding of the needs connected therewith.

The active management of the building is placed as far as practicable in the hands of a committee of students of the Sheffield Scientific School; the responsible control of the floor occupied by the Young Men's Christian Association being in the hands of those members of the committee who are chosen by the students as representatives of the Young Men's Christian Association of the Sheffield Scientific School.

#### DORMITORIES

Through the generosity of Mr. Frederick W. Vanderbilt (Sheffield Scientific School 1876), of New York City, a dormitory system for the Sheffield Scientific School has been started on a portion of land called Vanderbilt Square, directly opposite Sheffield Square. Two dormitory buildings known as VANDERBILT-SCIENTIFIC, in memory of the donor's brother, Cornelius Vanderbilt, who died in 1899, are already completed and occupied. These buildings are handsome Gothic stone structures, fire-proof, heated by steam, lighted by electricity, and provided with open

fire-places, and all modern conveniences. They contain twenty-eight single rooms, eighteen suites adapted for two persons, and thirty-nine suites capable of accommodating three men each. The rooms in these dormitories are not furnished, and the rates stated below do not include heating.

Students occupying rooms in these dormitories may retain the same rooms for another academic year by making application in writing to the Director of the School, on or before March 1, 1909. Rooms not reserved will then be offered to the classes in order of seniority.

PRICES PER WEEK OF ROOMS IN VANDERBILT-SCIENTIFIC

The prices appended are for a suite of rooms or single rooms, per week, the rental for the college year being for thirty-nine weeks. When a suite of rooms is occupied by two or more persons, each occupant will be charged with one-half or one-third the price named in the schedule.

\$4.00—Rooms 134, 135, 136, 137, 172, 173, 190, 191.

\$5.00—Rooms 117, 118, 119, 122, 123, 124, 125, 128, 129, 130, 131, 164, 165, 168, 169, 176, 177, 182, 183, 186, 187.

\$6.50—Rooms 105, 106, 174, 175.

\$8.00—Rooms 114, 115, 132, 133, 139, 150, 151.

\$3.50—Rooms 120, 126, 142, 146.

\$9.00—Rooms 121, 127, 143, 147, 152, 153.

\$10.00—Rooms 101, 104, 107, 113, 140, 141, 144, 145, 148, 149, 160, 161, 170, 171, 178, 188, 189.

\$11.00—Rooms 102, 103, 109, 111, 112, 162, 163, 166, 167, 180, 181, 184, 185.

\$11.50—Rooms 108, 110.

The dormitory floor of BYERS MEMORIAL HALL contains fourteen rooms, arranged around a large sitting room, which is used in common by all the occupants of this floor. These rooms are partially furnished, are lighted by electricity, heated by steam, and provided with commodious toilet facilities closely adjacent on the same floor. The price of these rooms is five dollars per week, for the college year of thirty-nine weeks, and includes light and heat.

According to a rule of the Governing Board of the School, students are not allowed to room in any hotel,

apartment-house, or building in which a family does not reside, except by special permission of the Faculty.

## **UNIVERSITY PRIVILEGES**

### **LIBRARIES AND READING ROOMS**

The Special Technical Library of the Scientific School consists of about 7,500 volumes. Included in this is the **HILLHOUSE MATHEMATICAL LIBRARY** of 2,400 volumes, collected during a long series of years by Dr. William Hillhouse, and in 1870 purchased and presented to the institution by Mr. Sheffield. A catalogue of this collection forms a supplement to the Annual Report of the Governing Board of 1870. Students have access to all the prominent scientific journals, and the proceedings of academies and scientific societies, which can be found either in this library or in the University Library.

There is also a **CHEMICAL LIBRARY** in the Sheffield Chemical Laboratory, in which the principal chemical journals and periodicals may be found. A compact working library of History, Economics, and Political Science, for the use of students pursuing these subjects, is situated in Byers Memorial Hall, where also there is a collection of books of reference of a general nature, including dictionaries in several languages, encyclopedias, etc., besides other volumes technical and technological in character. A small consulting library of Biology is maintained in the Biological Laboratory and private technical libraries on the subjects of Geology and Mineralogy are in Kirtland Hall; under suitable restrictions these may be used by students.

Members of the Scientific School have a convenient and commodious reading room in Byers Memorial Hall, where they will find the daily and weekly newspapers and reviews, and the standard monthly magazines.

For information regarding the University Library, the Peabody Museum of Natural History, Gymnasium, Yale Field, Yale Dining Hall, Bureau of Appointments, Infirm-

ary, Yale Station, United States Post Office, and University Lectures and Concerts, see Parts IV and V of this Catalogue.

#### CHURCH SITTINGS

Free sittings for students in this Department of Yale University are provided as follows: in the Center Church and United Church (Congregational); in Trinity Church and Christ Church (Episcopal); and in the First Methodist Church.

Those who prefer to pay for a sitting for one year, more or less, in the churches above mentioned, or in any other church of any denomination, may apply to the Director of the School.

Sittings in the College Chapel (Battell Chapel) are free, as heretofore, to the students of this Department. Pews in the South Gallery are reserved on Sundays for students of the Sheffield Scientific School. The ushers in attendance will indicate which they are.

The Sunday services are occasionally held in Woolsey Hall, where there is ample accommodation for students in all Departments.

For list of University Preachers, see Part IV.

#### SHEFFIELD LECTURES

A course of ten lectures, under the auspices of the Sheffield Scientific School, is delivered annually between January 15 and April 1, in North Sheffield Hall. The subjects of the course, which is now offered for the forty-third year, are of a scientific nature, of general interest, and are treated by men eminent in their respective lines of work. The lectures are as a rule illustrated. Course tickets are nominal in price, and the topics are announced in the Bulletin of the University and in the local press.

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## HONORS

**TWO-YEAR GENERAL HONORS** are awarded at the end of Senior year to those members of the class who have shown a high degree of proficiency in all the studies of their course during Junior and Senior years. A candidate for such honors must present, on or before June 10 of Senior year, a meritorious thesis on some subject approved by his Division Officer.

**ONE-YEAR GENERAL HONORS** are awarded at the end of Junior year to such students as have maintained a high standing for the year in all the studies of their course.

**SPECIAL HONORS** are awarded at the end of Junior and Senior years to students, not recipients of general honors, who have shown special excellence in any particular study or studies. Seniors who are candidates for such honors must present an acceptable thesis, unless excused by the Governing Board.

## SCHOLARSHIPS

The **HOLMES SCHOLARSHIP**, founded by Mr. Samuel Holmes, amounts to fifty dollars per year. The recipient must be a citizen of Middlebury, Prospect, Waterbury, or Wolcott, Connecticut; the appointments are made by the Board of Agents of the Bronson Library in Waterbury.

The **ROGERS SCHOLARSHIP**, founded in 1899, by a gift of five thousand dollars from Mr. William A. Rogers (class of 1874), of Buffalo, New York, is awarded, whenever there is a vacancy, at the end of Junior year, to a student of the course in Biology or Chemistry who has attained high rank in the studies of the course. The annual income from this fund will be paid to the incumbent during his Senior year, and if the holder of the scholarship desires, he may retain the scholarship for one year of graduate study, providing he maintains, during Senior year, high rank in his studies.

The **PAGE SCHOLARSHIPS**, founded in 1901, in memory of Henry A. Page, a merchant of the city of New York, by his son (class of 1875), consist of the income of a fund of

seven thousand dollars. This income is loaned by the Director of the School in amounts of one hundred dollars annually to deserving members of the Junior and Senior classes.

The MOORE SCHOLARSHIPS, five in number, of fifty dollars each, founded in 1906 by a gift of five thousand dollars from Mr. E. J. Moore, of Philadelphia, are awarded each year to deserving students of good scholarship standing. The money so advanced is to be considered in the light of a loan, to be repaid after graduation.

The GAYLORD SCHOLARSHIP. See page 103.

The MAHLON LONG SCHOLARSHIP. See page 108.

The DEFOREST SCHOLASHIP FUND. See page 105.

Applications for aid from this fund may be made before the first of June to the Director of the Sheffield Scientific School.

The LEAVENWORTH SCHOLARSHIP FUND. See page 105.

While this scholarship was designed primarily for students in the Academical Department, according to the terms of gift, if there should be a vacancy for a year or more, the same payments, namely, three hundred dollars each year, may be made, while the vacancy continues, to any student by the name of Leavenworth, in any Department of the University.

The BENJAMIN F. BARGE SCHOLARSHIP FUND. See page 108.

The Yale Alumni Association of Kansas City offers two prizes of twenty-five dollars each to be awarded to the two boys who pass the best examinations for admission to the Academical and Scientific Departments.

SCHOLARSHIPS in the form of annual loans of six hundred dollars are offered by the Yale Scholarship Trust of Chicago, a corporation formed January 16, 1903, to be distributed in installments to young men of Illinois, carefully chosen on the basis of personal character and scholarship, who enter Yale College or the Sheffield Scientific School.

**SHEFFIELD GRADUATE SCHOLARSHIPS.**—Six scholarships of one hundred dollars each (covering the charges for tuition) are awarded, on application, to those members of the graduating class of the Sheffield Scientific School who have attained high proficiency in the special studies of their respective courses, and who desire to spend one or more years in graduate study. Each scholarship will be available for one year only. Application for these scholarships must be made in writing, on or before June 1, to the head of the department to which the student belongs, with a statement as to the character of the graduate study to be pursued.

The **DANIEL C. EATON GRADUATE SCHOLARSHIP IN BOTANY.** See page 114.

The **PLAINFIELD SCHOLARSHIP FUND.** See page 109.

The **JOHN ADDISON PORTER MEMORIAL FELLOWSHIP.** See page 113.

The **LOOMIS FELLOWSHIP IN PHYSICS.** See page 314.

The **LOOMIS FELLOWSHIP IN CHEMISTRY.** See page 314.

#### **SPECIAL BENEFICIARY AID**

The sum of two thousand dollars has been appropriated from the University Loan Fund to be loaned, through the Director of the Sheffield Scientific School, to Scientific students who are in need of financial help and who show promise of successful scholarship. Moneys borrowed from this fund must be repaid at the expiration of five years after graduation.

Additional aid may be obtained from the Sheffield Loaning Fund and the Vanderbilt Loaning Fund, which are in the hands of the Board of Trustees of the Sheffield Scientific School. Application for such assistance should be made to the Director of the School.

#### **PRIZES**

**PRIZES** are offered annually, to members of the Senior class, for excellence in Civil Engineering, in Mechanical Engineering, in Mining Engineering, in Sanitary Engineering, and in Electrical Engineering; to members



of the Junior and Senior Classes in the Select Course, for excellence in History, as determined by special examination on assigned topics; to members of the Freshman class for excellence in all the studies of the year, in Physics, in German, in French, in Spanish, in English, in Chemistry, in Mathematics, in Biology, and in Drawing.

The WILLIAM R. BELKNAP PRIZES, founded by Mr. William R. Belknap of the class of 1869, are awarded for excellence in the Natural History studies of Senior year. There are two prizes, one for excellence in Geological studies, and one for excellence in Biological studies.

The BLAKE STONE BREAKER PRIZE, founded in 1902 by Mr. Henry T. Blake, representing the heirs of Eli W. Blake, of New Haven, as a memorial to Eli Whitney Blake, the inventor of the Blake Stone Breaker. This prize, consisting of not less than fifty dollars, is awarded to the author of any treatise deemed worthy of such award on some subject connected with Mining or Civil Engineering, and preferably with some branch of those pursuits in which the use of broken stone or ores is an important feature. In the award of said prize, preference shall be given to the work of students, graduate or undergraduate, in the Sheffield Scientific School.

The WILLIAM C. TUCKER PRIZE IN SANITARY ENGINEERING, consisting of fifty dollars, is awarded at the end of Senior year to a student in the Sanitary Engineering course who has attained General Honors in said course, and who presents the best thesis on some original work relating to Sanitary Engineering.

The SAMUEL LEWIS PENFIELD PRIZE, for proficiency in Mineralogy, of twenty-five dollars, founded in 1906 by a gift of five hundred dollars from Mr. Morris B. Belknap, of the class of 1877, is awarded at the end of Junior year.

The JOHN A. PORTER PRIZE. See page 577.

The JAMES GORDON BENNETT PRIZE. See page 577.

The COBDEN CLUB SILVER MEDAL. See page 578.

The GEORGE WASHINGTON EGLESTON HISTORICAL PRIZE, and The PHILO SHERMAN BENNETT PRIZE. See page 579.

# GRADUATE SCHOOL

## OFFICERS OF INSTRUCTION

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ANDREW WHEELER PHILLIPS, PH.D., *Dean, and Professor of Mathematics*

---

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neering*

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CHARLES SCHUCHERT, M.A.

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## **GENERAL STATEMENT HISTORY AND ORGANIZATION**

The Graduate School of Yale University, first formally organized in 1847, is a section of the Department of Philosophy and the Arts and is under the combined Faculty of that Department, the other sections of which are Yale College, the Sheffield Scientific School, the School of the Fine Arts, the Department of Music, and the Forest School.

The degrees of Doctor of Philosophy and Civil Engineer were first offered in 1860, the degree of Dynamical or Mechanical Engineer in 1873, that of Master of Arts (previously given without evidence of study) in 1874, that of Master of Science in 1897, and that of Mining Engineer in 1907.

The general oversight of graduate instruction and graduate students is entrusted to the Dean and the Administrative Committee of the Graduate School, who may be called upon for information and advice. Students are expected to report to the Dean soon after reaching New Haven.

### **ADMISSION AND REGISTRATION**

Graduates of this and other Colleges and Universities, and (in exceptional cases, by special permission) other persons of liberal education who are at least eighteen years old, are received as students for longer or shorter periods, with or without reference to the attainment of a degree. The degree of Doctor of Philosophy, with the courses of the Graduate School leading thereto, is open to candidates without distinction of sex.

All students who take courses in the Graduate School are required to register their names at the office of the Dean at the beginning of each year of study.

### **FEES AND EXPENSES**

The fee for instruction is generally one hundred dollars per year; but it may be more, or less, according to the courses pursued and the amount of instruction received.

Candidates for the degree of Master of Arts who pursue their studies *in absentia* (see page 317) pay a fee of twenty-five dollars in advance.

A special fee of five dollars is charged to those who use the Gymnasium.

The fee for graduation with the degree of Doctor of Philosophy, Master of Arts, or Master of Science is ten dollars; with the degree of Civil Engineer, Mechanical Engineer, or Mining Engineer, five dollars.

Board is obtained at prices varying from three and a half to eight dollars per week. The average price is under five dollars. Information as to suitable rooms may be obtained at the Dean's office.

#### FELLOWSHIPS AND SCHOLARSHIPS

Candidates for appointment to Fellowships and Scholarships should send their applications, accompanied by letters of recommendation and other evidence of the excellence of their work already accomplished, to the Dean, Professor Andrew W. Phillips, as soon as possible after March 1. The limit for all applications is April 15.

#### FELLOWSHIPS

##### OPEN TO GRADUATES OF ALL COLLEGES

Ten UNIVERSITY FELLOWSHIPS, yielding four hundred dollars each (but not exempting the holders from charges for tuition), are open to graduates of all colleges; but preference is given to those who have already spent at least one year in graduate study and have shown capacity for original work.

The HENRY C. ROBINSON FELLOWSHIP was founded in 1900 in the name of Mrs. Mary Robinson Cheney, of Hartford, Connecticut, and her sister, Miss Eliza Robinson, in memory of their uncle, Henry C. Robinson (Yale College 1853), by the gift of five thousand dollars. The income is awarded annually to a student of the Graduate School, selected on the ground of ability and attainments.

The BULKLEY FELLOWSHIP IN AMERICAN HISTORY was established in 1901 by the gift of ten thousand dollars from Mr. Jonathan Bulkley (Yale College 1879) and other members of his family, in memory of Heléna Perry Bulkley. The income, four hundred dollars, is awarded annually to a student of high character and marked ability, who will

pursue graduate studies in American History or Administration under the direction of the Professors of History.

The LOOMIS FELLOWSHIP IN PHYSICS was established in 1902 by Professor Francis E. Loomis (Yale College 1864), by the gift of ten thousand dollars. This Fellowship is open to the graduates of the Academical and Scientific Departments of Yale University, and to graduates of other Universities who have spent at least one year in the study of Physics in the Graduate School of Yale University. It is granted to the candidate who passes the best competitive examination in Physics (descriptive, mathematical, and laboratory practice). The holder of this Fellowship must be a candidate for the degree of Doctor of Philosophy and must make Physics his chief study.

The HENRY BRADFORD LOOMIS FELLOWSHIP IN CHEMISTRY was established in 1905 by Mr. Henry Bradford Loomis (Yale College 1875), by the gift of ten thousand dollars. This Fellowship is open to the graduates of the Academical and Scientific Departments of Yale University, and to graduates of other Universities who have spent at least one year in the study of Chemistry in the Graduate School of Yale University. It is granted to the candidate who passes the best competitive examination in Chemistry (inorganic, organic, chemical analysis, and laboratory practice). The holder of this Fellowship must be a candidate for the degree of Doctor of Philosophy and must make Chemistry his chief study.

The MARY E. IVES FELLOWSHIP IN PHILOSOPHY was established in February, 1908, by the gift of ten thousand dollars from Mrs. Mary E. Ives of New Haven. The income from this fund will be awarded annually to a woman graduate of any college of good standing who may have taken the first degree with distinction, and may have been recommended to the Corporation by the Professors of Philosophy, preference being given to such person as may have had one year of graduate work.

#### RESTRICTED TO GRADUATES OF CERTAIN INSTITUTIONS

The JOHN ADDISON PORTER MEMORIAL FELLOWSHIP (see page 113) is open only to graduates of Yale College or of the Sheffield Scientific School.

The following Fellowships (see page 111) are, by the terms of the donations, open only to graduates of Yale College :

The MACY FELLOWSHIP ;

The DOUGLAS FELLOWSHIP ;

The FOOTE FELLOWSHIPS (two or more) ;

The SOLDIERS' MEMORIAL FELLOWSHIP ;

The SILLIMAN FELLOWSHIP ;

The LARNED FELLOWSHIPS (three) ;  
The JOHN SLOANE FELLOWSHIP IN PHYSICS ;  
The SCOTT HURTT FELLOWSHIP ;  
The ELLEN BATTELL ELDRIDGE FELLOWSHIPS (two) ;  
The CUYLER FELLOWSHIP ;  
The JOHN J. ABERNETHY FELLOWSHIP ;  
The WILLIAM BORDEN FELLOWSHIP ;  
The MARSHALL S. BIDWELL FELLOWSHIP.

The YALE ALUMNI ASSOCIATION OF CALIFORNIA FELLOWSHIP of three hundred dollars is given to a graduate of one of the California Universities, pursuing studies at Yale in the Graduate School. The incumbent is selected by the Association.

### SCHOLARSHIPS

#### OPEN TO GRADUATES OF ALL COLLEGES

TWENTY UNIVERSITY SCHOLARSHIPS, yielding one hundred dollars each, are open to graduates of all colleges.

The ARTHUR TWINING HADLEY SCHOLARSHIP yields an income of two hundred and twenty-five dollars a year, which sum may be awarded annually to one or more students of the University, to assist in the publication of meritorious theses or other results of investigation.

#### RESTRICTED TO GRADUATES OF CERTAIN INSTITUTIONS

The DANIEL C. EATON GRADUATE SCHOLARSHIP IN BOTANY (see page 114) is open for competition only to members of the Senior classes in Yale College and the Sheffield Scientific School.

The following Scholarships (see page 114) are open only to graduates of Yale College :

The BERKELEY SCHOLARSHIP ;  
The CLARK SCHOLARSHIP ;  
The W. W. DEFOREST SCHOLARSHIP.

The following Scholarships (primarily for Academical undergraduates, see pages 105-106) may be continued or awarded to graduates of Yale College :

The DEFOREST SCHOLARSHIPS :  
The BRISTED SCHOLARSHIP.

SIX SHEFFIELD SCHOLARSHIPS (see page 302) are awarded to members of the graduating class of the Sheffield Scientific School.

The ROGERS SCHOLARSHIP (see page 300) may be continued to a graduate of the Sheffield Scientific School who has held it during his Senior year.

### PUBLICATION OF THESES

The sum of fifty dollars is appropriated by the University towards defraying the cost of publication of each thesis submitted for the degree of Doctor of Philosophy which is recommended for such purpose by the expert readers of the thesis in question, provided that such thesis is actually published, in separate form, by the first day of March following the graduation of the candidate, and that fifty copies have been presented to the University. See also the Arthur Twining Hadley Scholarship, above.

### DEGREES

The DEGREE OF DOCTOR OF PHILOSOPHY is conferred upon those students (of either sex) who show the results of resident graduate work by a thesis giving evidence of high attainment and power of investigation, and by passing an examination on studies whose grade and amount meet the approval of the Faculty. Under ordinary circumstances two or more years of work in residence is required, but in exceptional cases work of equal grade at another University may take the place of a year's residence here. The thesis must be deposited at the Library, for public inspection, not later than May 1. A good knowledge of Latin, German, and French is required in all cases, unless, for some very exceptional reasons, the candidate be excused by the Faculty. Evidence of sufficient attainments in these languages must be presented to the Dean at least two years before the degree is given. For fees covering instruction and graduation, see pages 312-13.

The DEGREE OF MASTER OF ARTS is conferred on men holding the degree of Bachelor of Arts from Yale College or other colleges whose course of study is equivalent to that of Yale College, upon their giving to the College Faculty evidence of satisfactory progress in liberal studies after receiving their first degree. Such evidence may be furnished by one year of systematic study (not professional) in New Haven, under the direction of

the College Faculty, followed by an examination. Graduates of other colleges can obtain the degree only by residence as thus described. For fees covering instruction and graduation, see pages 312-13.

A committee of the Faculty is appointed, to whom candidates for this degree must submit their proposed courses of study for approval by the end of October in each year; and the evidence of a year's study must be submitted to the same committee by June 1.

Such Bachelors of Arts of Yale College as do not find it convenient to take a course of advanced studies in residence may, not less than three years after graduation, be admitted to the degree, upon examination covering a course of study approved in advance by the Faculty, or upon submission of a printed essay which shall be deemed adequate evidence of proficiency.

The DEGREES OF CIVIL ENGINEER AND OF MECHANICAL ENGINEER are conferred on Bachelors of Philosophy who have taken the first degree in Engineering study and who pursue a higher course under the direction of the Governing Board of the Sheffield Scientific School for at least two years, sustaining a final examination, and giving evidence of their ability to design important constructions and to make the requisite drawings and calculations. For fees covering instruction and graduation, see pages 312-13.

The DEGREE OF MINING ENGINEER is conferred on Bachelors of Philosophy who pursue a higher course of study under the direction of the Governing Board of the Sheffield Scientific School for at least two years, sustaining a final examination and presenting a satisfactory thesis. For fees covering instruction and graduation, see pages 312-13.

The DEGREE OF MASTER OF SCIENCE is conferred on graduates of this or other Universities, of two years' standing or upwards, who have taken their first degree in science and who pursue successfully a higher course of

study in science under the direction of the Governing Board of the Sheffield Scientific School. Such a course involves at least one year of resident graduate study, followed by an examination and the presentation of a satisfactory thesis in some department of science. A committee of the Faculty is appointed, to whom candidates for this degree must submit their proposed courses of study for approval before the end of October of each year. For fees covering instruction and graduation, see pages 312-13.

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For various University Privileges of interest to graduate students, such as the Bureau of Appointments, the Dining Hall, the Gymnasium, the Infirmary, Libraries, and University Prizes, see later pages.



## INSTRUCTION

### SCOPE AND METHOD

Courses of study are offered in the following departments :

**A. LANGUAGE, LITERATURE, AND THE ARTS :**

- I. CLASSICAL AND INDO-IRANIAN PHILOLOGY ;
- II. SEMITIC LANGUAGES AND BIBLICAL LITERATURE ;
- III. MODERN LANGUAGES AND LITERATURES ;
- IV. THE FINE ARTS ;
- V. MUSIC.

**B. THE PHYSICAL AND NATURAL SCIENCES, MATHEMATICS, AND ENGINEERING :**

- VI. THE PHYSICAL AND NATURAL SCIENCES ;
- VII. MATHEMATICS ;
- VIII. ENGINEERING.

**C. THE SOCIAL SCIENCES, LAW, HISTORY, PHILOSOPHY, AND EDUCATION :**

- IX. THE SOCIAL SCIENCES, LAW, AND HISTORY ;
- X. PHILOSOPHY.

Instruction is given partly by lectures, partly in recitations and by criticism of oral and written discussions, partly by directing courses of reading, and partly by the direction of work in the laboratories and with instruments. In the several departments the instructors and students meet periodically, in various voluntary associations, for the reading of papers, oral discussions, etc. Such associations (individually described in the statements of the several departments) are as follows, named in the order of organization :

- |                                |                           |
|--------------------------------|---------------------------|
| The CLASSICAL CLUB;            | The PHYSICS JOURNAL CLUB; |
| The MATHEMATICAL CLUB;         | The ENGINEERS' CLUB;      |
| The POLITICAL SCIENCE CLUB;    | The CHEMICAL CLUB;        |
| The PHILOSOPHICAL CLUB;        | The HISTORY CLUB;         |
| The SEMITIC AND BIBLICAL CLUB; | The PHYSICAL CLUB;        |
| The MODERN LANGUAGE CLUB;      | The GEOLOGICAL CLUB;      |
| The GERMAN JOURNAL CLUB;       | The BIOLOGICAL CLUB;      |
| The ROMANCE CLUB;              | The ANTHROPOLOGY CLUB.    |
| The ENGLISH CLUB;              |                           |

## THE COURSES†

## A. LANGUAGE, LITERATURE, AND THE ARTS

## I. CLASSICAL AND INDO-IRANIAN PHILOLOGY

HENRY P. WRIGHT, PH.D., LL.D.	BERNADOTTE PERRIN, PH.D., LL.D.
EDWARD P. MORRIS, L.H.D.	HENRY R. LANG, PH.D.
THOMAS D. GOODELL, PH.D.	E. WASHBURN HOPKINS, PH.D., LL.D.
HORATIO M. REYNOLDS, M.A.	GEORGE L. HENDRICKSON, L.H.D.
HANNS OERTEL, PH.D.	JAMES W. D. INGERSOLL, PH.D.
PAUL V. C. BAUR, PH.D.	CHARLES U. CLARK, PH.D.
HENRY B. WRIGHT, PH.D.	WILMOT H. THOMPSON, JR., PH.D.

Students in this department have unrestricted use of its LIBRARY. This is in Phelps Hall, near the CLASSICAL SEMINARY ROOMS, in a large and well lighted apartment supplied with tables and private lockers. It contains nearly four thousand volumes, and additions are made each year, so that the student finds here practically everything needed for ordinary work in the courses in classical philology, except some periodicals and expensive illustrated works, which are accessible in the University Library. Special purchases of books will be made for students who are carrying on investigations either in connection with their theses or otherwise.

The University possesses an unusually good Numismatic Collection and the beginnings of a Collection for the Illustration of other Branches of Classical Archæology, as well as a considerable Collection of Photographs and Slides.

The CLASSICAL CLUB, consisting of the instructors and students in this department, meets in the library room on alternate Monday evenings, to hear reports and papers in the field of classical philology, or to read and discuss the work of some Greek or Latin author. During

† Courses included in brackets are omitted in 1908-09. Most of the courses thus omitted will probably be offered in 1909-10; others are given at longer intervals or in accordance with the needs of the students in attendance.

Courses marked with an asterisk (\*) are undergraduate courses; they are open to graduate students who have the consent of the instructor and the approval of the Faculty.

The number of hours stated, when not otherwise specified, means hours of classroom attendance or laboratory work each week throughout the year.

the year 1908-09 the club will read the *Poetics* of Aristotle and the *Ars Poetica* of Horace.

Graduate students of this University who are approved by the classical instructors are admitted without charge to the American Schools of Classical Studies in Athens and in Rome.

#### SUGGESTIONS TO STUDENTS

The instruction in this department is adapted to the needs of those who desire to spend one or two years in advanced study without reference to a degree, as well as of those who are candidates for the degree of M.A. or Ph.D.

At the outset of his work the student should form two habits: (1) the habit of extensive private reading in Greek and Latin literature; (2) that of following current philological thought in the journals. These habits should be persistently maintained, however strong may be the claims of other work.

Graduate work is not the completion of philological study, but a preparation for further study. To the graduate student, therefore, in the selection of his courses, method is more important than information, and work which requires a large library and the counsel of an instructor should be taken in preference to work which can be done privately.

The individual courses offered fall into three groups, as follows: courses in literature, courses in language, and courses of a more special character. No one of these three groups can wisely be neglected entirely. The courses in literature are of two kinds: (1) those in which the student learns the method of interpretation and gets an intimate knowledge of a small portion of an author; (2) those in which a wider field is covered, to give a general view, bring out the larger features of an author or a period, and suggest a pattern for private reading. The courses in language—except those in Greek

and Latin composition—bear less directly on elementary teaching, but they are useful even there, and are indispensable as a preparation for later productive work. The courses of a more special character are partly for method (source-criticism, text-criticism, interpretation), partly for information (history, epigraphy, palæography, archæology, current philological literature). These subjects are for the most part of such character that they cannot be studied to the best advantage without an instructor and a large library.

The number of hours of instruction that may wisely be taken depends upon previous training and the character of the courses. Students are advised to plan a combination of heavier courses with those which require less preparation. For this purpose the student may visit a large number of courses at the beginning of the year and postpone his final selection two or three weeks.

Courses are arranged under five heads: Greek; Latin; Classical Archæology; Indo-Iranian Philology; Comparative Grammar, Phonetics, and Linguistics. A candidate for the degree of Ph.D. in this department will select one of these five subjects as his major subject of study and one or two others as his minor subject. To the minor subject must be given not less than one-third of the student's time. If either Latin or Greek is the major subject, it should be remembered that classical philology, rather than Latin alone or Greek alone, is the true field of study, and that some acquaintance with archæology and linguistics is most desirable. For advanced work in language, and for work in comparative philology, Sanskrit should be taken early, so that it may be used in other courses in this group.

All candidates for the doctorate must have had one year in the classical seminary. The final test for the degree consists of a thesis and, after the thesis has been accepted, an oral examination conducted by a committee

of the department. All further details regarding the requirements for the degree of Ph.D. in this department are contained in a pamphlet which may be obtained upon application to the Dean of the Graduate School.

#### CLASSICAL SEMINARY

The members are expected to have read widely in Greek and Latin literature, and to be able to read French and German freely.

Professor PERRIN :—

1 (a) *Theocritus*. 2 hrs. 1st half-year.

Critical, exegetical, and historical studies in selected *Idylls* of Theocritus.

Professor HENDRICKSON :—

1 (b) *The Brutus of Cicero*. 2 hrs. 2d half-year.

Exercises in text-criticism and interpretation, the argument and tendencies of the work, its relation to the *de Oratore*, investigation of the sources.

#### GREEK

##### GREEK LITERATURE

See also 1 (a), above, courses X, 1 and 2 (*Greek Philosophy*), and some of the courses in Biblical Literature (group II). Certain courses in general or comparative literature are announced in the English group (III).

Professor PERRIN :—

2 *Herodotus*. 3 hrs.

A literary study of the entire work of Herodotus, and historical studies in the tradition of the Persian War.

Professor GOODELL :—

3 *Æschylus*. 3 hrs.

Study of the extant plays and fragments, with emphasis on dramatic structure, moral and religious doctrines, diction, and lyric meters.

[4 *Aristotle, The Politics*. 3 hrs.

Reading, and study of the subject-matter.

Omitted in 1908-09.]

[5 *Sophocles*. 3 hrs.

Reading of the extant plays, with special attention to the artistic form.

Omitted in 1908-09.]

Professor REYNOLDS :—

6 *Attic Inscriptions.* 1 hr.

An elementary course in epigraphy, including the history of the alphabet ; the grammar, formulæ, and historical content of typical Attic inscriptions, with the reading of them in their original form.

Professor PERRIN :—

[\*7 *Æschylus and Pindar.* 3 hrs.

[See Course II, C 11, page 145.]

Omitted in 1908-09.]

Professor GOODELL :—

\*8 *Plato.* 3 hrs.

[See Course II, C 13, page 145.]

[\*9 *Æschylus and Sophocles.* 3 hrs.

[See Course II, C 15, page 145.]

Omitted in 1908-09.]

Professor REYNOLDS :—

\*10 *Euripides and Theocritus.* 2 hrs.

[See Course II, C 17, page 145.]

[\*11 *Plato and Aristotle.* 2 hrs.

[See Course II, C 19, page 146.]

Omitted in 1908-09.]

#### THE GREEK LANGUAGE

See also courses 66 (*Comparative Syntax*), 67 (*Phonetics*), 68 (*Indo-European Phonology*), 69 and 70 (*Comparative Grammar*), and 71 (*Linguistics*).

Professor OERTEL :—

13 *Greek Dialects and Comparative Grammar of Greek Sounds and Inflections.* 3 hrs.

Text-book : F. Solmsen's *Inscriptiones Græcæ ad inlustrandas dialectos selectæ* (2d ed.).

Dr. W. H. THOMPSON :—

\*14 *Greek Composition.* 1 hr.

[See Course II, C 21, page 146.]

## COURSES OF A MORE SPECIAL CHARACTER

See also courses 42 (*Interpretation and Criticism*), 44 (*Text-Criticism*), 45 (*Palæography*), 55-59 (*Archæology*), III, 85 (*Bibliography*).

Professor PERRIN :—

[15 *Thucydides*. . . . . 1 hr.

Practical exercises in the exhaustive critical study of portions of the text of Thucydides, following lectures on the MSS. and bibliography of this author.

Omitted in 1908-09.]

16 *Outline Survey of Ancient History*. . . . . 2 hrs.

Lectures and conferences, following manual-study, outlining and emphasizing such general features of ancient history, from the earliest civilization of the Euphrates to the decline of the Roman Empire, as are most valuable for the intelligent prosecution of medieval history. Special attention is paid to bibliography.

## LATIN

## LATIN LITERATURE

Certain courses in general or comparative literature are announced in the English group (III).

Regular courses in the reading and interpretation of Latin authors and a course in the reading of modern philological literature will be provided by the several instructors to meet the needs of individual students. To facilitate the systematic arrangement of these courses students are requested to consult Professor Morris at the beginning of the year.

Professor MORRIS :—

[24 *Plautus*. . . . . 2 hrs.

Lectures introductory to the study of Plautus, followed by a careful study of the *Bacchides*.

Omitted in 1908-09.]

[25 *Terence*. . . . . 2 hrs.

A careful study of one play, followed by more rapid reading of the other five plays. Practice in metrical reading.

Omitted in 1908-09.]

Professor HENDRICKSON :—

- 26 *The Minor Works of Tacitus.* 2 hrs.

A study of the style, literary form, and purpose of the *Agricola*, *Dialogus*, and *Germania*.

- 27 *Latin Style, from Livy to Fronto.* 2 hrs. 1st half-year.

Lectures, readings, and discussions.

Assistant Professor INGERSOLL :—

- 28 *Latin Literature.* 2 hrs.

A general survey of the whole field. Lectures, illustrative readings, and direction of the student's private reading.

Assistant Professor C. U. CLARK :—

- [29 *Latin Literature of the Early Middle Ages.* 2 hrs.

A review of the intellectual and literary history of the West from Jerome to Charlemagne. The works read are chosen especially to show the development of language and culture. Knowledge of French and German is essential in this course.

Omitted in 1908-09.]

- 30 *Latin Literature of the Late Middle Ages.* 2 hrs.

This course illustrates the literary transition from medieval to modern times, and the later phases of medieval culture. Knowledge of French and German is essential in this course.

Professor H. P. WRIGHT and Assistant Professor H. B. WRIGHT :—

- \*31 *Juvenal, Martial, and Pliny's Letters.* 2 hrs.

[See Course I, B 5, page 143.]

Professor MORRIS :—

- [\*32 *Vergil.* 2 hrs.

[See Course I, D 17, page 144.]

Omitted in 1908-09.]

Assistant Professor C. U. CLARK :—

- [\*33 *Latin Sight-Reading.* 4 hrs., to count as 2 hrs.

Rapid reading, commencing with Gudeman's *Latin Literature of the Empire*.

Omitted in 1908-09.]

#### THE LATIN LANGUAGE

See also 1 (b), above, and courses 66 (*Comparative Syntax*), 67 (*Phonetics*), 68 (*Indo-European Phonology*), 69 and 70 (*Comparative Grammar*), and 71 (*Linguistics*).



Professor MORRIS :—

- 34 *Latin Syntax.* 2 hrs.

Introductory lectures on the history of syntactical study and on the principles and methods of investigation ; discussion of syntactical systems in grammars and text-books.

Professor OERTEL :—

- 35 *Early Latin.* 2 hrs.

Study of inscriptions and of the ante-classical literature. The course is largely philological and critical, dealing with the development of forms, constructions, and literature.

- [36 *Selections from Latin Authors on the Latin Language.* 2 hrs.

Passages from Cicero, Quintilian, Aulus Gellius, Varro, and others, which bear on questions of Latin grammar, are read and interpreted.

Omitted in 1908-09.]

- [37 *The Italic Dialects and Comparative Grammar of Latin Sounds and Inflection.* 3 hrs.

Text-books: Buck's *Grammar of Oscan and Umbrian* (Ginn & Co., 1904) and Sommer's *Handbuch der lateinischen Laut- und Formenlehre* (Heidelberg, 1902).

Omitted in 1908-09.]

- [38 *Characteristics of Latin.* 2 hrs. 1st half-year.

Omitted in 1908-09.]

- 39 *Practice in Writing Latin Prose (Advanced Course).* 2 hrs.

Text-books: Cicero's *Laelius* and Menge's *Repetitorium der lateinischen Syntax und Stilistik* (7th ed., 1900).

Assistant Professor C. U. CLARK :—

- \*40 *Latin Composition.* 2 hrs.

[See Course I, C 15, page 144.]

#### COURSES OF A MORE SPECIAL CHARACTER

See also courses 59 and 60 (*Archæology*), III, 85 (*Bibliography*), and IX, 66 and 68 (*Roman History*).

Professor MORRIS :—

- [42 *Interpretation and Criticism.* 1 hr.

Exposition and illustration of the principles of interpretation and text-criticism, with practice in the use of the standard critical editions of eight or ten authors.

Omitted in 1908-09.]

Professor LANG :—

43 *Low Latin.* 1 hr.

The aim of this course is to give a historical account of the popular speech of Rome and of the Roman provinces, and also an outline of its grammar and syntax.

Assistant Professor C. U. CLARK :—

44 *Introduction to Text-Criticism.* 2 hrs.

Reconstruction of the text of Ammianus Marcellinus in the light of Wilhelm Meyer's Law and on the basis of new collations. The class will correct proof-sheets of Mr. Clark's edition, now being printed in Germany.

[45 *Latin Palæography.* 2 hrs.

Facility in reading and dating MSS. is acquired by systematic study of the rich University collections of facsimiles. The origin and the bearing upon text-criticism of MS. errors are constantly observed.

Omitted in 1908-09.]

Assistant Professor INGERSOLL :—

[\*46 *Roman Law.* 2 hrs.

[See Course I, C 13, page 144.]

Omitted in 1908-09.]

#### CLASSICAL ARCHÆOLOGY

Assistant Professor BAUR :—

55 *Greek Art, I. Sculpture.* 3 hrs., Sept. to March,  
to count as 2 hrs. for the year.

Lectures and quizzes by the instructor; special study of the literary sources by the students.

[56 *Greek Art, II. The Lesser Arts.* 2 hrs.

Greek painting, ceramics, terra-cottas, bronzes and other metal work, coins, and gems.

Omitted in 1908-09.]

57 *Greek Architecture.* 3 hrs., Sept. to March,  
to count as 2 hrs. for the year.

The various forms of building-construction are successively examined in informal lectures, supplemented by occasional reports from members of the class.

[58 *Topography and Monuments of Athens.* 2 hrs.

A combination of the historical and the strictly topographical methods of treatment is adopted. Those who take this course should be provided with the Teubner text of Pausanias.

Omitted in 1908-09.]

- 59 *Archæological Exercises.* 3 hrs., Sept. to March,  
to count as 2 hrs. for the year.

Exercises in the interpretation of archæological monuments, as illustrating classic life and literature. The monuments are selected largely with reference to the courses offered in Greek and Latin authors. No preparation is required.

- 60 *Roman and Etruscan Art.* 3 hrs., Sept. to March,  
to count as 2 hrs. for the year.

This course includes Roman architecture, Græco-Roman sculpture, topography and monuments of Rome and of Pompeii; also the domestic arts, such as household utensils, glass, coins, frescoes, mosaics, textiles, terra-cottas.

### INDO-IRANIAN PHILOLOGY

Professor HOPKINS :—

- \*61 *Elementary Sanskrit.* 2 hrs.

[See Course IV, B 1, page 147.]

- 62 *Advanced Sanskrit.* 2 hrs.

Selections from the *Rig-Veda* and Brahmanic texts. The first half-year is occupied with the *Vedic Hymns*, the second with portions of the first Brahmanic works and *Upanishads*, the earliest Aryan prose.

- 63 *History of Sanskrit Literature.* 1 hr.

This course consists in a review of Vedic and classical Sanskrit literature from the earliest times to the Puranic period, with extracts to illustrate the various phases of literary development.

- 64 *Pāli Language and Literature.* 1 hr.

Intended for those who desire to begin the study of Buddhistic scriptures. Pāli is easy for advanced Sanskrit students, and offers much of interest in literature and religion.

- 65 *Avestan Language and Literature.* 1 hr.

For advanced students of Sanskrit.

Professor Hopkins' *Lectures on Comparative Religion* are announced in the group of courses in Philosophy.

### COMPARATIVE GRAMMAR, PHONETICS, AND LINGUISTICS

Professor HOPKINS :—

- 66 *Introduction to Comparative Syntax.* 1 hr.

This course is intended especially for students of these languages who desire a more thorough acquaintance with the

problems of comparative syntax. To solve these problems a knowledge, if not of the Sanskrit language, at least of Sanskrit syntactical phenomena, is necessary, and the lectures are planned accordingly.

Professor OERTEL :—

67 *Phonetics.* 1 hr.

A general and rather elementary introduction to Phonetics, based on a study of the English, French, and German sound-systems. Text-book : Jespersen's *Lehrbuch der Phonetik* (1904).

68 *Eighteen Lectures on Indo-European Phonology.* 1 hr.

An outline of the most important facts of Indo-European phonology : the vowel-system, the problems of ablaut, the gutturals, and accent.

69 *Comparative Grammar, I.* 1st term.

A short comparative survey of the declensions in Sanskrit, Greek, Latin, and Germanic.

[70 *Comparative Grammar, II.* 2d term.

A short comparative survey of the conjugations in Sanskrit, Greek, Latin, and Germanic.

Omitted in 1908-09.]

71 *Linguistics.* 2 hrs.

An introduction to the scientific study of linguistic development, dealing with the general principles and chief problems of linguistic science, modern methods of linguistic research, etc.

## II. SEMITIC LANGUAGES AND BIBLICAL LITERATURE

EDWARD L. CURTIS, PH.D., D.D. HARLAN P. BEACH, M.A.

FRANK C. PORTER, PH.D., D.D. B. W. BACON, D.D., LITT. D., LL. D.

CHARLES C. TORREY, PH.D., D.D. CHARLES F. KENT, PH.D.

RAYMOND G. CLAPP, M.A.

Connected with the department are the READING ROOM, the SEMINARY ROOM, the REFERENCE LIBRARIES, the SPECIAL COLLECTIONS and the SEMITIC AND BIBLICAL CLUB.

The READING ROOM, in 9 Fayerweather Hall, adjoins the SEMINARY ROOM used by the department. It contains a good Reference Library in Biblical Literature and may be used for purposes of study at all times.

The TROWBRIDGE REFERENCE LIBRARY of the Divinity School, situated near the special library of the department proper, is also available for students in this department. It contains more than 3,000 carefully selected volumes and is particularly rich in works of reference for Biblical study.

The SALISBURY COLLECTION of Oriental manuscripts, books, and works of reference, the LIBRARY OF THE AMERICAN ORIENTAL SOCIETY, the LANDBERG COLLECTION of rare and valuable Arabic manuscripts, and the well stocked Semitic Sections of the University Library furnish exceptional advantages and opportunities for independent research to the student of Semitic literature.

The SEMITIC AND BIBLICAL CLUB, composed of the instructors, the students who are candidates for an advanced degree, and others who are interested in the work, holds fortnightly meetings, in Room A, East Divinity Hall, at which papers on subjects of interest to Biblical students are presented and discussed.

The courses in this department are arranged in three groups, under separate sub-headings (Hebrew ; Other Semitic Languages ; Biblical Literature), but the groups are not entirely mutually exclusive ; *e. g.*, the courses in Hebrew and some of those in Other Semitic Languages are also courses in Biblical Literature.

See also courses III, 85 (*Bibliography*), and Professor Walker's courses in *Church History* and *Christian Literature* (IX, 69, 70, 75, 76, and 77).

## HEBREW

Professor CURTIS :—

- 1 *Elementary Hebrew.* 3 hrs.

The elements of Hebrew are taught with the use of Harper's *Hebrew Method and Manual* and *Elements of Hebrew* as text-books. In addition to this preliminary work, covering the first eight chapters of Genesis, some six hundred additional verses of Hebrew prose are read.

- 2 *Advanced Hebrew.* 2 hrs.

This course consists of the translation and exegesis, by the student, during the first term, of selected passages of Hebrew prose, and during the second term of selected Psalms with a method of instruction in general that of a seminar.

- 3 *The Wisdom Literature.* 1 hr.

A course in translation and exegesis. The Book of Job will be studied in 1909-10; portions of Proverbs, Ecclesiastes, and Canticles, in 1908-09.

- 4 *The Books of Chronicles.* 1 hr.

The grammatical and historical exegesis of the Hebrew text.

Professor KENT :—

- 5 *Hebrew Seminary.* 2 hrs.

A knowledge of Hebrew, Hellenistic Greek, and German is required. Subject for 1908-09: the syntactical and textual problems of the Psalter and the critical translation of important Psalms.

## OTHER SEMITIC LANGUAGES

Advanced courses in Classical and Palestinian Syriac, Old Babylonian, Ethiopic, and Sabæan and Minæan Inscriptions will be given according to the needs of students. Instruction in modern colloquial Arabic (Syrian dialect) will be offered to those who intend to spend a year or more in the American School in Palestine.

Professor TORREY :—

- \*8 *Elementary Arabic.* 2 hrs.

[See Course V, B 11, page 149.]

- [9 *The Koran.* 2 hrs. 1st half-year.

Reading of selected suras, with a supplementary study of the life of Mohammed.

Omitted in 1908-09.]

- [10 *Classical Arabic Prose.* 2 hrs. 2d half-year.

Reading of Torrey's *Selections from The Saḥīḥ of al-Buḥārī*, for the main purpose of gaining familiarity with the classical vocabulary and style. The course serves also as an introduction to the *Hadīth* literature in general and to the beginnings of Mohammedan historiography.

Omitted in 1908-09.]

- 11 *Arabic Poetry.* 2 hrs. 2d half-year.

Reading of selections from Nöldeke's *Delectus Veterum Carminum Arabicorum*.

- 12 *Elementary Syriac.* 2 hrs.

Those who intend to make a thorough study of the New Testament or of early Church history will find this course valuable. Text-book: Brockelmann's *Syrische Grammatik*.

- 13 *Syriac (Advanced Course).* 2 hrs. 1st term.

Reading of the *Chronicle of Joshua the Stylite* (Wright's ed.). The class reads the whole *Chronicle*, which is one of the oldest and most interesting of the works of its kind.

- [14 *The Old Syriac Gospels.* 2 hrs.

Reading of a considerable portion of the Lewis palimpsest (*The Four Gospels in Syriac*. Cambridge, 1894), with attention to both linguistic and critical phenomena. Students who have taken course 12, or its equivalent, are qualified to enter this course.

Omitted in 1908-09.]

- 15 *Biblical and Palestinian Aramaic.* 2 hrs. 2d term.

Reading of the Aramaic portions of *Daniel* and *Ezra*, and other specimens of early Palestinian Aramaic. Text-books: Marti's *Grammatik der Biblisch-Aramäischen Sprache* and Dalman's *Aramäische Dialektproben*.

- 16 *Elementary Assyrian.* 2 hrs. 1st half-year.

The text-books used are Lyon's *Assyrian Manual* (2d ed.) and Delitzsch's *Lesestücke* (4th ed., 1900).

- 17 *Old Babylonian Texts.* 2 hrs. 2d half-year.

The documents studied are the *Law-Code* of Hammurabi, and selected *Letters* from the Amarna correspondence.

- [18 *North Semitic Inscriptions.* 1 hr.

The Moabite stone; the Siloam inscription; the Zenjīrlī monuments, and other Old Aramaic remains; selected Phœnician and Palmyrene inscriptions; coins with old Semitic legends.

Omitted in 1908-09.]

19 *General Introduction to Semitic Philology.* 1 hr. 1st term.

A general view of the Semitic languages and peoples, including a brief survey of their literatures. No previous knowledge of the Semitic languages is required for this course, though some acquaintance with at least the Hebrew language is desirable.

[20 *The History of Old Semitic Art.* 1 hr.]

The fine arts in Babylonia and Assyria; Hittite monuments; Phœnician art and its sources; remnants of Palestinian art; the Hebrews; the Western Aramaic peoples; South Arabian monuments. Illustrated lectures, supplemented by prescribed reading. Babelon's *Manual of Oriental Antiquities* (2d ed.) should be in the hands of the student. A good reading knowledge of French and German is indispensable.

Omitted in 1908-09.]

### BIBLICAL LITERATURE

Professor CURTIS:—

26 *The Old Testament* (English). 2 hrs.

An exposition of the Old Testament Prophetic and Poetic Literature with a view to their use in the pulpit and the Bible class.

27 *Old Testament Introduction.* 2 hrs.

A survey of the history of the canon, text, and versions, followed by a special introduction to the historical books of the Old Testament and exegesis of their contents. Lectures and required reading.

Professor PORTER:—

28 *Theology of the Pre-exilic Prophets.* 2 hrs. 1st term.

A course of lectures on the religious and ethical conceptions of Amos, Hosea, Micah, Isaiah, and Jeremiah, based on a critical use of the books that bear their names.

29 *The Theology of Judaism.* 2 hrs. 2d term.

The religious history of the Jews from *Deuteronomy* to the Maccabean era. The religious significance of outward conditions and events, and the ruling ideas and special problems of the literature of the period. Lectures.

30 *Biblical Theology of the New Testament.* 3 hrs.

The central aim of the course is the right understanding of the teaching of Jesus. The Apostolic teaching is also studied, the common faith of primitive Christianity, the religious thought of Paul, and the early post-Apostolic age.



31 *Hellenistic Judaism.* 1 hr.

This course will consist in part in lectures on the history of the influence of Greek thought upon Judaism before and about the time of Christ ; in part in readings from Philo.

32 *Studies in Christology.* 1 hr.

Lectures with supplementary readings concerning the distinction between the temporary and the abiding elements in the New Testament doctrine of Christ.

Professor BACON :—

\*33 *The Pauline Epistles.* 3 hrs. 1st term.

[See Course V, B 13, page 149.]

34 *The Christological Epistles.* 1 hr. 1st term.

A study of the origin and nature of the Christology of Paul in *Ephesians*, with a comparison of *Colossians*, *Philemon*, and *Philippians*. Lectures ; preparation of theses by the students.

\*35 *Synoptic Gospels.* 3 hrs. 2d term.

[See Course V, B 13, page 149.]

36 *The Teaching of Jesus.* 1 hr. 2d term.

Comparison and interpretation of synoptic reports of the discourses of Jesus, using Harnack's *Sayings of Jesus*. Lectures and collateral reading.

37 *New Testament Introduction.* 2 hrs. 1st term, 1 hr. 2d term.

Lectures and discussions on New Testament criticism and introduction, using Bacon's *Introduction to New Testament Literature*.

38 *Historical Origins of the Church.* 2 hrs. 1st term.

Critical discussion of the *Book of Acts*, with application of the principles of historical and documentary criticism. Seminary method.

39 *Theological German.* 1 hr. 1st term.

Reading and discussion of standard German treatises, for practice and information.

[40 *Hebrews and Catholic Epistles.* 2 hrs. 2d term.

A critical and exegetical study of the non-Pauline epistles in their origin and historical environment. Courses 40 and 41 are not both given in the same year.

Omitted in 1908-09.]

41 *The Johannine Literature.* 2 hrs. 2d term.

A critical study of the origins of the *Fourth Gospel* and the *Johannine Epistles*. Seminary method. Courses 40 and 41 are not both given in the same year.

- 42 *Patristic Greek.* 1 hr. 1st term.  
Exegesis of selected passages from the Apostolic Fathers bearing on problems of the higher criticism. Seminary method.

- 43 *Problems of Text-Criticism.* 1 hr. 2d term.  
A critical comparison of the Alexandrian with the Western form of the text, aiming to exhibit the history of the principal variants, and beginning with the Lucan writings. Seminary method.

Professor KENT :—

- \*44 *Biblical Literature and History.* 3 hrs.  
[See Course V, A 1, page 148.]
- \*45 *Historical Origin of Christianity.* 2 hrs.  
[See Course V, B 3, page 148.]
- 46 *Biblical Seminary.* 2 hrs.

Intended to train students for patient, accurate, and independent investigation of Biblical and cognate questions. For 1908-09 the subject of critical study is the character, work, writings, and teachings of the post-exilic prophets and psalmists.

Professor KENT and Mr. CLAPP :—

- 47 *Principles and Methods of Religious Education.* 2 hrs.  
Investigation of the problems and existing methods of religious instruction ; study of psychological principles and of the Biblical material, with a view to their practical use in religious education ; outlining of definite courses of study.

Mr. CLAPP :—

- \*48 *Life and Literature of the Apostolic Age.* 2 hrs.  
[See Course V, B 5, page 148.]

#### THE THEORY AND PRACTICE OF MISSIONS AND THE LANGUAGE AND RELIGIONS OF CHINA

Professor BEACH :—

- \*49 *Non-Christian Religions and Christianity.* 1 hr.  
[See Course 34, page 447.]
- \*50 *Factors in Missionary Efficiency.* 1 hr.  
[See Course 35, page 447.]
- \*51 *The Present Status of Asiatic Missions.* 1 hr.  
[See Course 36, page 447.]
- \*52 *Elementary Chinese, Written and Spoken.* 2 hrs.
- \*53 *Indigenous Chinese Religions—Taoism and Confucianism.* 1 hr. 1st term.

**III. MODERN LANGUAGES AND LITERATURES**

HENRY A. BEERS, M.A.	ALBERT S. COOK, PH.D., L.H.D., LL.D.
HENRY R. LANG, PH.D.	ROBERT L. SANDERSON, M.A.
ARTHUR H. PALMER, M.A.	FRED'K M. WARREN, PH.D., L.H.D.
E. HERSHEY SNEATH, PH.D., LL.D.	CHARLES C. CLARKE, JR., M.A.
GUSTAV GRUENER, PH.D.	WILBUR L. CROSS, PH.D.
ALBERT E. CURDY, PH.D.	CHARLTON M. LEWIS, PH.D.
WILLIAM L. PHELPS, PH.D.	ROBERT N. CORWIN, PH.D.
CHARLES S. BALDWIN, PH.D.	KENNETH MCKENZIE, PH.D.
CLYDE C. GLASCOCK, PH.D.	EDWARD B. REED, PH.D.
MAX S. MANDELL	HOLLON A. FARR, PH.D.
GEORGE H. NETTLETON, PH.D.	RUDOLPH SCHEVILL, PH.D.
JOHN M. BERDAN, PH.D.	FREDERICK B. LUQUIENS, B.A.
IRVILLE C. LECOMPTE, PH.D.	CHAUNCEY B. TINKER, PH.D.
HENRY S. CANBY, PH.D.	EDWARD THORSTENBERG, PH.D.
KAN-ICHI ASAKAWA, PH.D.	HENRY N. MACCRACKEN, PH.D.
ANDREW KEOGH, M.A.	

As auxiliary to the regular courses in modern languages and literatures, four clubs hold regular sessions throughout the year. These are The MODERN LANGUAGE CLUB, The ROMANCE CLUB, The GERMAN JOURNAL CLUB, and The ENGLISH CLUB. The first and the last in particular aim to deal with subjects not too technical in character, and thus to promote a sense of comity among all the workers in the same field.

The MODERN LANGUAGE CLUB, formed of instructors and students in the departments of Romance Languages, German, and English, holds meetings regularly each month, for the reading and discussion of original papers and for reports of progress in the field of these studies.

The ROMANCE CLUB, consisting of the instructors and students in the department of Romance Languages and Literatures, meets every other Saturday morning to report on, and discuss, the results of recent scientific research in this field of study.

The GERMAN JOURNAL CLUB, which meets on alternate Tuesday evenings, has for its object the presentation of reports on the most interesting periodicals published in German and devoted to the science of Germanic philology.

The ENGLISH CLUB, to which are invited all persons, whether members of the University or not, who are interested in the study or teaching of the English language or literature, meets on alternate Monday evenings at 7 o'clock in Room 23, Linsly Hall, to listen to the presentation of some topic and engage in the informal discussion of it. The club never remains in session over an hour, and thus other engagements for the same evening are not interfered with.

The GERMAN SEMINARY ROOM in Lampson Hall, where the Journal Club meets, contains a working library for the use of advanced students in the Germanic languages. It also serves as a general study and working room for such students.

Room 23, Linsly Hall, is reserved for advanced students in the modern languages and literatures. It is adjacent to the stacks of the University Library which contain the books belonging to those departments of study, and is convenient for reading, research work, and quiet conference.

#### ROMANCE LANGUAGES

See also Courses I, 43 (*Low Latin*), 45 (*Latin Palæography*), 29 and 30 (*Latin Literature of the Middle Ages*), 66 (*Comparative Syntax*), 67 (*Phonetics*), 68 (*Indo-European Phonology*), 71 (*Linguistics*), III, 85 (*Bibliography*), and X, 27 (*Readings in French Psychology and Philosophy*). Certain courses in general or comparative literature are announced in the English group, below.

Professor LANG :—

#### I *Seminary Course in Romance Languages and Literatures.*

1 hr.

This course is designed to give competent students guidance in original research. In 1908-09 the work will center on the study of the origin and growth of medieval lyric poetry in Provence, France, and other Romance countries.

## FRENCH LINGUISTICS AND PHONETICS

Assistant Professor CURDY :—

- 2 *Old French Phonology and Morphology.* 2 hrs.

A study of the historical grammar of the French language from the earliest times.

- 3 *French Dialects.* 1 hr.

The phonology and morphology of the dialects of northern France before the fifteenth century. A discussion of the various theories regarding the origin and spread of dialects serves as introduction. A knowledge of French historical grammar is requisite.

- 4 *Old French Syntax.* 1 hr.

Lectures on the syntax of the Old French period, with reference to the Latin and Modern French rules of syntax. A knowledge of French historical grammar is requisite.

Dr. LECOMPTE :—

- 5 *Old French Readings.* 1 hr.

A course in systematic reading of Old French texts, with literary study of the period. A knowledge of French historical grammar is requisite.

Assistant Professor LUQUIENS :—

- 6 *Old French.* 2 hrs.

Study of Old French grammar, reading of texts, and lectures on the literary development of the period. This course is especially designed for students of English.

Assistant Professor SANDERSON :—

- 7 *Practice in Writing and Speaking French.* 2 hrs.

This course is *conducted entirely in French*. It is especially intended for graduates or undergraduates who read French with ease and understand it when they hear it spoken.

Professor C. C. CLARKE :—

- 8 *Phonetics of Modern French.* 1 hr.

Lectures and exercises on the phonetics of the cultivated Parisian speech. Previous study of general phonetics required.

## FRENCH LITERATURE

Professor WARREN :—

- 9 *The Arthurian Epic.* 2 hrs.

- 10 *Modern Realists.* 1 hr.

Assistant Professor SANDERSON :—

- 11 *French Literature of the Eighteenth Century.* 2 hrs.

A study of the great writers of the eighteenth century (more particularly Montesquieu, Voltaire, J. J. Rousseau, Diderot) and of their principal works. *Conducted in French.*

Professor C. C. CLARKE :—

- 12 *French Poetry of the Nineteenth Century.* 1 hr.

Lectures and readings intended to familiarize the student with the work of representative poets, the evolution of French poetry, and the versification. *Conducted in French.*

#### PROVENÇAL

Professor LANG :—

- 14 *Provençal Language and Literature.* 2 hrs.

A study of the historical grammar of medieval Provençal and of the poetry of the Troubadours. Appel's *Provenzalische Chrestomathie* (3d ed., Leipzig, 1907) is used for the beginning.

#### SPANISH

Professor LANG and Assistant Professor SCHEVILL :—

- \*15 *Spanish (Elementary Course).* 3 hrs.

[See Course VIII, A 1, page 152.]

Assistant Professor SCHEVILL :—

- \*16 *Composition in Spanish.* 2 hrs.

[See Course VIII, B 3, page 152.]

Professor LANG :—

- \*17 *Spanish Prose of the Nineteenth Century.* 3 hrs.

[See Course VIII, B 5, page 153.]

- \*18 *Spanish Prose of the Sixteenth and Seventeenth Centuries.* 2 hrs.

[See Course VIII, C 7, page 153.]

Assistant Professor SCHEVILL :—

- [19 *The Spanish Drama of the Sixteenth and Seventeenth Centuries.* 2 hrs.

Reading in class of plays by Lope de Vega, Tirso de Molina, Calderón, etc. ; reports on assigned work.

Omitted in 1908-09.]

Professor LANG :—

- \*20 *General View of Spanish Literature.* 2 hrs.

[See Course VIII, C 11, page 153.]

21 *Beginnings of Spanish Literature.* 1 hr.

A study of Spanish literature previous to the fifteenth century, special attention being given to the Castilian epic. As often as may be possible, the class will be taken to the Museum of the Hispanic Society in New York City.

## PORTUGUESE

Professor LANG :—

22 *Portuguese Literature.* 1 hr.

Given at the discretion of the instructor.

## ITALIAN

Assistant Professor McKENZIE :—

\*23 *Italian (Elementary Course).* 3 hrs.

[See Course VII, A 1, page 152.]

\*24 *Italian Literature.* 1 hr.

[See Course VII, 3, page 152.]

25 *Dante.* 3 hrs.

Thorough study of Dante's life and works, particularly his *Vita Nuova* and *Divina Commedia*. (For a course in *Dante in English*, see 59, below.)

[26 *Petrarch and Boccaccio.* 2 hrs.

The works of Petrarch and Boccaccio and their predecessors and contemporaries.

Omitted in 1908-09.]

27 *Italian Literature of the Thirteenth Century.* 1 hr.

Reading of texts, with reference both to their literary qualities and to the history of the language. Text-book : Wiese's *Altitalienisches Elementarbuch* (Heidelberg, 1904).

28 *Fable-Literature in the Middle Ages.* 1 hr.

The history of Æsopic fables ; their relation to the bestiaries and the beast-epic. Conferences and reports.

## GERMAN

For courses in general or Indo-European *Grammar*, *Linguistics*, *Phonetics*, and *Syntax*, see I, 66-71. For *Theological German* and *Readings in German Psychology and Philosophy*, see II, 39, and X, 17. A general course in *Bibliography* and certain courses in general or comparative literature are announced in the English group, below.

## Professor PALMER :—

The following courses, 34, 35, 46, and 47, will be given in 1908-09 according to circumstances and the needs of the graduate students in attendance.

34 *Introduction to Germanic Philology.* 2 hrs.

A course introductory to the general study of Germanic philology, dealing with its history, methods, fields, and fundamental facts.

35 *Gothic.* 2 hrs.

An introductory course, especially for those who intend to study German or English historically, in the study of Gothic and its phonological relations to both earlier Indo-Germanic and later Germanic languages.

\*36 *Goethe : Works and Life.* 3 hrs.

[See Course IX, C 21, page 155.]

\*37 *History of German Literature, 1624-1832.* 2 hrs.

[See Course IX, C 23, page 156.]

## Professor GRUENER :—

38 *Middle High German.* 3 hrs.

Hartmann's *Der Arme Heinrich* and *Iwein*; the *Nibelungenlied*; selected poems of Walther von der Vogelweide; selections from Wolfram von Eschenbach's *Parzival*. Lectures and papers.

[39 *German Literature of the Reformation Period (1500-1624).* 3 hrs.

The development of German literature from the beginning of the Reformation to the time of Opitz.

Omitted in 1908-09.]

\*40 *The Drama of Schiller and his Contemporaries.* 2 hrs.

[See Course IX, B 17, page 155.]

\*41 *German Epic, Ballad, and Lyric Poetry.* 2 hrs.

[See Course IX, C 25, page 156.]

## Professor CORWIN :—

[42 *Old High German.* 3 hrs.

A rather detailed course in the oldest High German dialects and literature. Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*, and the collateral literature for reference.

Omitted in 1908-09.]



43 *History of New High German.* 2 hrs.

The earlier periods of the language are first surveyed, for the purpose of gaining a comprehensive idea of the chief linguistic phenomena and their causes. Upon this basis a more special study is made of the origin and development of New High German.

Assistant Professor GLASCOCK :—

44 *Sudermann and Hauptmann.* 2 hrs.

Reading and critical analysis of plays of Sudermann, Hauptmann, and other modern German dramatists. Discussion of their relations to earlier and contemporary authors.

Assistant Professor FARR :—

\*45 *German Literature of the Nineteenth Century.* 2 hrs.

[See Course IX, B 19, page 155.]

### SCANDINAVIAN

Professor PALMER :—

46 *Old Norse (Icelandic).* 3 hrs.

Grammar, and reading in the *Sagas* and the *Elder Edda*.

47 *Norwegian and Danish.* 2 hrs.

The object of this course is to lay the foundation for a reading and practical knowledge of the language.

Dr. THORSTENBERG :—

48 *Swedish.* 2 hrs.

This course is intended as a foundation for a reading and practical knowledge of the language. Together with the study of grammar, selections from modern authors are read.

### RUSSIAN

Mr. MANDELL :—

\*49 *Elementary Russian.* 3 hrs.

[See Course XI, 1, page 156.]

### JAPANESE

Dr. ASAKAWA :—

\*50 *Elementary Japanese.* 2 hrs.

[See Course XII, 1, page 156.]

\*51 *Modern Practical Japanese.* 2 hrs.

[See Course XII, 3, page 156.]

## ENGLISH

Two years before taking the degree of Ph.D. in English, a candidate must have obtained from one of the English Professors a certificate of his proficiency in Latin, French, and German.

The candidate for the degree of Ph.D. must pass two oral examinations: (1) a general examination, covering the field of modern English literature from the accession of Queen Elizabeth to the death of Queen Victoria; (2) a special examination, upon some one period of English literature (or some one phase of it). The subject of the special examination will be designated by the candidate himself, but notice of the subject selected must be given to the Chairman of the Administrative Committee of the English Faculty at least a year beforehand, and the subject selected must receive the Committee's approval. Subjects for graduation theses must also receive the Committee's approval in advance.

While no fixed number of courses is prescribed for candidates for the degree of Ph.D., an aggregate credit of eighteen hours is indicated as most likely to meet the requirements in ordinary cases. It is usual for a student to undertake about eight hours in each of his first two years of residence, and (if he has shown the required proficiency) to devote most of his third year to the completion of his thesis. All students have free election (subject, however, to the approval of the Administrative Committee) among the courses offered in the English department of the School, and with the Committee's approval may choose courses in related subjects in other departments. But every candidate for the degree of Ph.D. must take at least one two-hour course in Old English, unless he has taken the subject as an undergraduate and gives satisfactory evidence of proficiency.

For courses in general or Indo-European *Grammar*, *Linguistics*, *Phonetics*, and *Syntax*, see I, 66-71. For a course in *Old French* designed especially for students of English, see III, 6.

## Professor BEERS:—

- 55 *Milton and his Contemporaries.* 2 hrs.

The *belles lettres* of the Puritan Revolution. All Milton's English and some of his Latin poems, with his most important prose; the Church poets and cavaliers, diaries, memoirs, etc.

- 56 *Medieval Allegory.* 2 hrs.

The *Purgatory* of Dante, the *Romaunt of the Rose*, and a portion of *Piers Plowman* will be read in class, with other texts illustrative of the subject.

## Professor COOK :—

The strictly graduate courses announced below are given according to circumstances and the needs of the graduate students in attendance; and special attention is given to the supervision of individual research in any part of the general field.

- 57 *The Method of English Study.* 2 hrs.

A course in the principles and methods of English study, including a general survey of its scope. A knowledge of German is essential in this course.

- 58 *Theories of Poetry.* 2 hrs.

A course in the theories of poetry in general, and in the principles of criticism applicable to its various departments, as the epic, the drama, and the lyric.

- 59 *Dante in English.* 2 hrs.

A course primarily in the *Divina Commedia* and the *Vita Nuova*, though selections from other works are also read. Much attention is bestowed upon the historical and literary background of the poet and his works.

- [60 *Literary Types.* 2 hrs.

A survey of European literature, with reference to the characterization and illustration of the more important species. Candidates must satisfy the instructor with regard to their proficiency in French, German, and Latin.

Omitted in 1908-09.]

- 61 *Advanced Old and Middle English.* 2 hrs.

Selected works are read with reference especially to the acquisition of scholarly method. A knowledge of German is essential in this course.

62 *Seminary in English Literature.* 3 hrs.

A critical study of some representative writer or department of literature.

63 *Old and Middle English.* 2 hrs.

An elementary course in the beginnings and earlier development of the English language and literature.

Professor CROSS :—

64 *English Prose Fiction, with Special Reference to the Nineteenth Century.* 1 hr.

Instruction in this course is mainly by lectures. Each student is required to read and report on a list of books, and to prepare in the latter part of the second term a paper on an assigned topic.

Professor LEWIS :—

66 *Verse Composition.* 1 hr.

Fortnightly exercises in composition. A practical study of the chief varieties of English verse and stanza.

67 *Prosody.* 1 hr.

Individual study of special topics and problems, historical and theoretical. Frequent conferences.

68 *Shakespeare.* 1 hr.

First term: a minute study of *Macbeth*. Second term: miscellaneous problems as to date, authenticity, and genesis of various plays.

69 *Nineteenth Century Poets.* 2 hrs.

Research work in poetry, biography, and criticism, under the direction of the instructor.

Professor PHELPS :—

[71 *English Literature of the Seventeenth Century.* 2 hrs.

A study of English poetry and prose from Donne to Dryden, exclusive of the drama. The social life of the times is discussed in connection with some of the authors mentioned above. Milton is not included in this course.

Omitted in 1908-09.]

\*72 *Elizabethan Drama.* 2 hrs.

[See Course XIII, B 9, page 160.]

73 *The Contemporary Drama.* 1 hr.

A study of contemporary stage-plays in Europe and in America, from the literary, social, and dramatic points of view. A good reading knowledge of both French and German is prerequisite to this course.

Assistant Professor C. S. BALDWIN :—

- 74 *The Teaching of English* (with special reference to composition). 3 hrs. first term,  
to count as 1 hr. for the year.

A practical course for teachers, surveying the scope of instruction in the mother tongue, the relations of vernacular studies to other studies and of rhetoric to literature, and the methods of recitation and criticism.

- 75 *Rhetoric Seminary*. 1 hr.

Instruction is offered in the second term, the equivalent of one hour for the year, in either (1) the theory of rhetoric, or (2) creative composition.

Assistant Professor REED :—

- 76 *English Lyrical Poetry*. 1 hr.

A research course in the Middle English lyric ; Wyatt, Surrey, and the early sixteenth century lyrists ; Elizabethan song writers and sonneteers. The influence of the Italian and French lyrical poets will be investigated.

Assistant Professor NETTLETON :—

- 77 *The English Drama Since the Restoration*.

This course is divided into two parts, given in alternate years, but each part is complete in itself. It is primarily a course of lectures on the history of English drama, with critical study of representative dramatists. It is divided as follows :

- a English Drama from Dryden to Goldsmith*. 1 hr.

- [b English Drama from Goldsmith to Tennyson*. 1 hr.

Omitted in 1908-09.]

Assistant Professor BERDAN :—

- 79 *Poetry of the Renaissance*. 2 hrs.

This course is divided into two parts, given in alternate years. No one may elect *b* without having had *a*, unless by special permission. Reading knowledge of Italian essential.

- a The Influence of Petrarch*. 2 hrs.

Non-dramatic Elizabethan literature studied in connection with European movements. Petrarch's sonnets, selected poems of the Quattrocento, Cinquecento and the Pléiade studied in reference to their analogy with contemporary English literature.

- b The Reaction against Petrarch*. 2 hrs.

Berni, the school of Aretino, Marino, Du Bartas, Regnier, Voiture, discussed in connection with the school of Donne and the seventeenth century English poets.

Assistant Professor TINKER :—

[80 *Early Narrative.* 1 hr.

The reading begins with the *Beowulf*, which is minutely examined, and then compared with other similar narratives and with the popular ballads. A knowledge of Old English is required.

Omitted in 1908-09.]

Dr. SNEATH :—

81 *English Philosophical Literature.* 2 hrs.

A study of the masterpieces of English philosophical literature. The authors studied are Bacon, Hobbes, the Cambridge Platonists, Clarke, Locke, Berkeley, Hume, Shaftesbury, Butler, Reid, and the Common Sense School.

82 *The Philosophy of the English Poets.* 2 hrs.

A study of the reflective thought of the following English poets: Sir John Davies, Milton, Pope, Coleridge, Wordsworth, Tennyson, and Browning.

Assistant Professor CANBY :—

83 *History and Criticism of English Short Narrative.*

The two parts of this course will be offered in successive years; *a* will be chiefly historical, *b* mainly critical, and either half may be taken independently.

*a Short Narrative before the Renaissance.* 1 hr.

The origin of the *fabliau*, fable, *novella*, *conte dévot* apologue, and like varieties of short narrative in earlier literatures, and their growth in English. Ælfric, Robert of Brunne, Gower, Chaucer, Henryson, etc., considered as tellers of stories.

[*b Short Narrative from the Renaissance to Modern Times.* 1 hr.

A critical study of the best short narrative, with analysis of the various types and an estimate of the literary value of the product. As much consideration as possible of earlier or parallel developments in other literatures.

Omitted in 1908-09.]

Dr. MACCRACKEN :—

84 *Literature from Chaucer to Spenser.* 1 hr.

Literature from Chaucer to Spenser in England, and Scots literature from its beginning through the Elizabethan period. The year will be equally divided between these studies.

## THE USE OF THE LIBRARY

Mr. KEOGH :—

85 *Bibliography.*

Ten lectures on certain practical aspects of bibliography. Discussion of reference books; the reviewing of books; the classification and cataloguing of libraries; the taking and filing of notes and references; the compilation of bibliographies; the printing of theses.

## IV. THE FINE ARTS

JOHN F. WEIR, N.A., M.A.      JOHN H. NIEMEYER, M.A., A.N.A.

JOHN P. C. FOSTER, M.D.      GEORGE H. LANGZETTEL, B.F.A.

G. ALBERT THOMPSON, B.F.A.      EDWIN C. TAYLOR

LEE O. LAWRIE

The charge for instruction in the Art Course is twenty-five dollars for the College year, entitling the student to all the privileges of the School as arranged for students from other Departments of the University.

For courses in *Greek, Roman, Etruscan, and Old Semitic Art*, see I, 55-60, and II, 20.

Professor WEIR :—

1 *Painting.*

Technical course in painting from the living model; composition; lectures on the grammar of art. Only those students who have been qualified by a course in drawing may take this course.

Mr. LAWRIE :—

2 *Modeling.*

Studies from casts and the living model, with lectures on the grammar of art in Course I.

Mr. TAYLOR :—

3 *Drawing.*

Technical course in drawing from the antique and the living model; from the portrait and the nude model; lectures on perspective and composition.

Dr. FOSTER :—

4 *Anatomy.*

Lectures on artistic anatomy.

Mr. G. A. THOMPSON :—

5 *Painting.*

Painting from still-life.

## V. MUSIC

SAMUEL S. SANFORD, M.A.

ISIDOR TROOSTWYK

HORATIO W. PARKER, MUS.D.

LEO SCHULZ

HARRY B. JEPSON, B.A., MUS.B.

WILLIAM E. HAESCHE, MUS.B.

CHARLES RABOLD

H. STANLEY KNIGHT

D. STANLEY SMITH, B.A., MUS.B.

SETH BINGHAM, B.A., MUS.B.

LEWIS WILLIAMS

Mr. D. S. SMITH :—

1 *Harmony.* 2 hrs.

The study of chords, progressions, modulation, and non-harmonic notes. The work consists of exercises in figured-bass, the harmonization of melodies, and harmonic analysis.

2 *Counterpoint.* 2 hrs.

Practice in strict counterpoint, both simple and double, harmonization of chorales, composition of short pieces in a freer style, and analysis of simple polyphonic forms.

Professor PARKER :—

3 *Strict Composition.* 2 hrs.

The writing of canons, fugues, and polyphonic choral movements. Each student is required to submit at the close of the year a complete four-voiced fugue.

4 *History of Music.* 1 hr.

Lectures on the development of music from its earliest stages, with biographical sketches of composers and practical illustrations at the piano.

Mr. HAESCHE :—

5 *Instrumentation.* 2 hrs.

Lectures on the characteristics of the instruments of the modern orchestra, illustrations of their use by great composers, and exercises in practical orchestration.

Professor PARKER :—

6 *Free Composition.* 2 hrs.

The writing of free vocal and instrumental pieces in the smaller forms, and later in the sonata form, either for single instruments or for a combination of instruments.

7 *Advanced Orchestration and Conducting.* 1 hr.

The study of old and new orchestral scores; practical instruction in conducting; orchestration of original or other compositions.



Professors SANFORD and JEPSON, Assistant Professors TROOSTWYK and KNIGHT, Mr. RABOLD, Mr. SCHULZ, Mr. WILLIAMS, and Mr. BINGHAM:—

8 *Practical Music.*

1 hr.

Private instruction in piano-, organ-, violin-, and violoncello-playing and in singing. Fees range from fifty to one hundred dollars for the College year. No student is admitted to this course who has not been admitted to one of the theoretical courses, except in the case of violoncello-playing and singing. Private piano or organ practice may be obtained for a small fee.

## B. THE PHYSICAL AND NATURAL SCIENCES, MATHEMATICS, AND ENGINEERING

### VI. THE PHYSICAL AND NATURAL SCIENCES

WILLIAM G. MIXTER, M.A.	EDWARD S. DANA, PH.D.
CHARLES S. HASTINGS, PH.D.	FRANK A. GOOCH, PH.D.
RUSSELL H. CHITTENDEN, PH.D., LL.D., Sc.D.	HORACE L. WELLS, M.A., Sc.D.
WILLIAM J. COMSTOCK, PH.B.	LOUIS V. PIRSSON, M.A.
FREDERICK E. BEACH, PH.D.	HARRY B. FERRIS, M.D.
PHILIP E. BROWNING, PH.D.	JAMES W. TOUMEY, M.A., M.S.
ROSS G. HARRISON, M.D., PH.D.	ALEXANDER W. EVANS, M.D., PH.D.
HENRY L. WHEELER, PH.D.	CHARLES SCHUCHERT, M.A.
LAFAYETTE B. MENDEL, PH.D.	HENRY A. BUMSTEAD, PH.D.
WESLEY R. COE, PH.D.	JOSEPH BARRELL, PH.D.
BERTRAM B. BOLTWOOD, PH.D.	RICHARD S. LULL, PH.D.
LYNDE P. WHEELER, PH.D.	GEORGE F. EATON, PH.D.
HORACE S. UHLER, PH.D.	HARRY W. FOOTE, PH.D.
YANDELL HENDERSON, PH.D.	HERBERT E. GREGORY, PH.D.
LEO F. RETTGER, PH.D.	JOHN D. IRVING, PH.D.
ELLSWORTH HUNTINGTON, M.A.	TREAT B. JOHNSON, PH.D.
RALPH G. VAN NAME, PH.D.	WILLIAM E. FORD, JR., PH.D.
FRANK P. UNDERHILL, PH.D.	ARTHUR H. GRAVES, PH.D.
BEVERLY W. KUNKEL, PH.D.	GEORGE S. JAMIESON, PH.D.
CHAMPION H. MATHEWSON, PH.D.	HAROUTUNE M. DADOURIAN, PH.D.
LORANDE L. WOODRUFF, PH.D.	LEON J. COLE, PH.D.
ISAIAH BOWMAN, B.S.	ARTHUR L. DEAN, PH.D.
MARVIN M. SCARBROUGH, M.D., M.A.	WILLIAM A. DRUSHEL, PH.D.

The work in PHYSICS is carried on in the Sloane Physical Laboratory of the Academical Department and in the Physical Laboratory of the Sheffield Scientific School (in Winchester Hall); the work in CHEMISTRY, in the Sheffield Chemical Laboratory and in the Kent Chemical Laboratory of the Academical Department; the work in PHYSIOLOGY, PHYSIOLOGICAL CHEMISTRY, COMPARATIVE ANATOMY, and GENERAL BIOLOGY, in the Sheffield Biological Laboratory; the work in BOTANY, in the Eaton Herbarium (in Sheffield Hall); the work in FORESTRY, in the Forest School; the work in THE GEOLOGICAL SCIENCES and ZOOLOGY, in the Peabody Museum of Natural History and in Kirtland Hall of the Sheffield Scientific School.

The PHYSICS JOURNAL CLUB, open to graduate students in Physics, meets weekly, in 121 Winchester Hall, for the review and discussion of the current literature in this department of study.

The PHYSICAL CLUB, organized for study, criticism, and discussion, holds fortnightly meetings, in the Sloane Laboratory, open to graduates and other advanced students in Physics.

The CHEMICAL CLUB, composed of instructors, graduate students, and others interested in Chemistry, holds fortnightly meetings, in the Kent Chemical Laboratory, for the discussion of current chemical literature and the presentation of papers.

The BIOLOGICAL CLUB, composed of instructors, graduate students, and others interested in Biology, meets fortnightly, in the Sheffield Biological Laboratory, for the presentation and discussion of papers and reviews of recent work.

The GEOLOGICAL CLUB is an association of the instructors and graduate students, for the purpose of encouraging the students to prepare papers, and to aid in the discussion of current topics of interest in geological subjects. It holds fortnightly meetings in Peabody Museum.

### PHYSICS

Professor HASTINGS and Assistants :—

- 1 *Physics.* 3 hrs. lectures, 6 hrs. laboratory work.

Laboratory work in the Sheffield Physical Laboratory, supplemented by lectures on the theory of instruments and on the theory of electricity and electrical machinery.

- 2 *Physical Optics.* 2 hrs. 2d half-year.

The object of the course is to give the student a critical knowledge of the essential optical instruments and of the fundamental phenomena of light.

- 3 *Theory of Errors.* 1 hr. 2d half-year.

This includes the Method of Least Squares and is developed with special attention to the requirements of the student of Physics.

## Professor BUMSTEAD and Assistants :—

4 *Introduction to Theoretical Physics.* 3 hrs.

Mechanics, thermodynamics, the kinetic theory of gases, the wave-theory of light, and the elementary mathematical theory of electricity and magnetism. Lectures and recitations.

5 *Laboratory Physics.* 6 hrs.

Laboratory work in the Sloane Laboratory. Problems of considerable experimental difficulty and involving a knowledge of mathematical Physics such as may be obtained in course 4.

[6 *Electricity and Magnetism.* 2 hrs.

The mathematical theory of Electricity and Magnetism, based on Maxwell's Treatise, with explanation of the modifications and additions to the theory developed by J. J. Thomson, Lorentz, Larmor, and others.

Omitted in 1908-09.]

7 *Electromagnetic Theory of Light.* 2 hrs.

Relations to the Elastic Solid Theory and MacCullagh's Theory; optics of crystals; dispersion; moving media; applications of the electron theory to problems of emission and absorption.

## Assistant Professor BEACH :—

8 *Vectors.* 2 hrs.

The relations between directed quantities are developed with reference to their importance in Physics, and applications made to hydrodynamics and the electromagnetic field.

## Assistant Professor BOLTWOOD :—

9 *Radioactivity.* 1 hr. 2d term.

Lectures on the chemical and physical properties of radioactive substances, and the discussion of these with respect to their bearing on the hypothesis of atomic disintegration.

## Assistant Professor L. P. WHEELER :—

10 *Thermodynamics.* 2 hrs.

This course is a development of the consequences of the two fundamental laws of Thermodynamics, as affording a general theory of physical and chemical equilibrium. The thermodynamics of radiation will also be considered.

[11 *Electrostatics.* 1 hr.

The solution of problems of electrostatics by means of Spherical Harmonics, Bessel's Functions, Conjugate Functions, and Electrical Images. The course is prefaced by a brief account of general electrostatic theory.

Omitted in 1908-09.]

[12 *Theory of Electrons.* 1 hr.

The lectures treat : (1) of the origin of the idea of the electron and the evidence for its existence ; (2) of the question of its material or electrical nature ; (3) of that explanation of certain of the properties of matter and of the phenomena of electromagnetism which is based on the hypothesis of a molecular structure of electricity.

Omitted in 1908-09.]

Dr. UHLER :—

13 *Spectroscopy.* 1 hr. 1st half-year.

The object of the course will be to present the experimental facts and various hypotheses in a broad way, rather than to specialize in some particular phase of the subject.

Dr. DADOURIAN :—

[14 *Problems in Advanced Dynamics.* 2 hrs.

The course consists mainly in the solution of problems by the students. Applications of Lagrange's and Hamilton's Equations, and of the Principle of Least Action.

Omitted in 1908-09.]

The following courses, given by Professors in the department of Mathematics, but falling properly within the field of physical study, are announced in detail in the group of courses in Mathematics : *Mechanics* and *Celestial Mechanics* (Professor BROWN) ; *Advanced Mechanics* (Professor PIERPONT).

See also 18 (*Chemical Physics*), 30 and 58 (*Physical Chemistry*), 31 and 59 (*Physico-Chemical Measurements and Methods*), and some of the courses in Engineering.

### CHEMISTRY

For a course in *Radioactivity*, see 9, above. For courses in *Physiological Chemistry*, see 90, 91, and 94, below.

#### COURSES IN THE SHEFFIELD CHEMICAL LABORATORY

The analytical laboratories of the Sheffield Scientific School are open to students in term time from 9.00 A. M. to 1.00 P. M. and from 2.00 to 5.00 P. M. every week day except Saturday. The greater part of the instruction is given in the laboratory, to each student separately, but the various classes have, in addition, two or more lectures or recita-

tions a week, in connection with the studies pursued in the laboratory.

Professor MIXTER :—

18 *Chemical Physics.*

Especially the methods employed in calorimetry and in the determination of specific heat.

Professor WELLS :—

19 *Qualitative Analysis.* 1st term.

Embraces a study of the commonly occurring elements in their qualitative relations, and includes a systematic course of analysis for the same. A good knowledge of elementary Chemistry is a necessary preparation for this. If desired, the course is extended to include a study of many of the rare elements.

20 *Quantitative Analysis.*

This is open only to those who have taken course 19 or its equivalent. (a) Gravimetric Analysis : embraces a series of exercises involving a considerable number of important methods. (b) Volumetric Analysis : includes the most important and typical methods. (c) Ultimate Organic Analysis.

21 *Inorganic Preparations.* 2d term, 1st half.

A course of laboratory work, with lectures and recitations. About thirty or forty compounds are prepared, which give a variety of important and instructive processes.

22 *Advanced Quantitative Analysis.*

(a) Metallurgical Chemistry : the analysis of ores, fuels, fluxes, alloys, metals, and other furnace products. (b) Mineralogical Chemistry : the analysis of minerals for scientific purposes.

23 *Metallurgy.* 2d term.

A course of recitations and lectures on elementary Metallurgy.

24 *Technical Gas-Analysis.* 2d term, 2d half.

A short practical course, including the principal methods.

25 *Investigations in Inorganic Chemistry.*

Opportunities are offered, to those who have had sufficient preparation, to make researches upon analytical methods, the preparation of chemical compounds, and other scientific problems.

Mr. COMSTOCK :—

26 *Elementary Organic Chemistry.* 3 hrs.

Lectures and recitations through the year, with six hours per week of laboratory work from January to March.

Professor H. L. WHEELER and Dr. JOHNSON :—

27 *Advanced Organic Chemistry.*

This offers an opportunity for more extended study and original investigation to those who have proper preparation.

28 *Organic Preparations.* 2d term, 2d half.

Laboratory work, consisting of five exercises per week, of about three hours each, in the preparation of such compounds as will give familiarity with the most important synthetical methods.

Professor MENDEL :—

29 *Industrial Analysis.* 2d term, 1st half.

An elementary course covering oils, naval stores, foods, fermentation products, textile fibers, and paper. For advanced students this list is extended to include practically all the important commercial products.

Assistant Professor FOOTE :—

30 *General and Physical Chemistry.* 3 hrs.

Recitations and lectures on General and Physical Chemistry.

31 *Physico-Chemical Measurements.* 2d term, 5 weeks.

Laboratory practice in the more important methods of Physical Chemistry.

32 *Electrochemistry.* 2d term, 5 weeks.

Experimental work in Electrochemistry, including the usual measurements, quantitative electro-analysis, and the synthesis of organic and inorganic compounds.

33 *Physical Chemistry.* 2 hrs. 2d term, 1st half.

Lectures on physical chemistry.

34 *Investigations in General and Physical Chemistry.*

Opportunities offered, to those who have had sufficient preparation, for research work in general and physical chemistry.

Dr. JAMIESON :—

35 *Sanitary Water-Analysis.* 2d term.

A practical course in the chemical examination of drinking-waters. Three exercises of two and one-half hours each per week, and subsequent opportunity for more extended study of the subject.

36 *Technical Water-Analysis.* 2d term.

A practical course in the examination of water for use in boilers, of mineral waters, etc.

37 *Metallurgical Analysis.* 2d term, 2d half.

A laboratory course, including the analysis of ores, alloys, slags, and fuels. Laboratory open Monday–Friday, 9.00–12.15.

Dr. MATHEWSON :—

38 *Metallography.*

A course of twelve lectures covering methods used in the study of alloys.

39 *Metallographical Laboratory Practice.*

Laboratory study of simple binary alloys.

COURSES IN THE KENT CHEMICAL LABORATORY

The Kent Chemical Laboratory is open from 8.30 to 1.00 and (Saturday excepted) from 2.00 to 5.00 to students who are taking strictly graduate courses.

Professor GOOCH, Assistant Professor BROWNING, Dr.

VAN NAME, and Dr. DRUSHEL :—

\*43 *Inorganic Chemistry.* 6 hrs., to count as 3 hrs.

[See Course XVIII, A 1, page 173.]

Assistant Professor BROWNING :—

\*44 *Qualitative Analysis.* 6 hrs.

[See Course XVIII, B 3, page 174.]

Professor GOOCH and Dr. DRUSHEL :—

\*45 *Organic Chemistry.* 5 hrs.

[See Course XVIII, B 5, page 174.]

Professor GOOCH :—

\*46 *Quantitative Analysis.* 6 hrs.

[See Course XVIII, C 7, page 174.]

\*47 *Inorganic Reactions.* 6 hrs.

[See Course XVIII, D 15, page 175.]

48 *Applied Analysis.*

Practice in systematic Quantitative Analysis.

49 *Research in Inorganic Chemistry.*

The experimental development of reactions and processes.

50 *Research in Analysis.*

The experimental discovery or modification of analytical methods.

Assistant Professor BROWNING :—

\*51 *The Rare Elements.* 5 hrs.

[See Course XVIII, C 9, page 174.]



**52 Preparation Processes. 6 hrs.**

The experimental study of methods used in the preparation of the Rare Elements and their compounds, with the use of original literature.

**53 Research in the Chemistry of the Rare Elements.**

Special problems involving separation of the rare earths and metals.

Dr. DRUSHEL :—

**\*54 The Carbon Compounds, Descriptive and Theoretical. 3 hrs.**

[See Course XVIII, C 13, page 174.]

**55 Organic Preparations.**

Practice in organic synthesis, with the use of original literature.

**56 Organic Analysis.**

Laboratory practice in the methods of Organic Analysis, including gas-analysis.

**57 Research in Organic Chemistry.**

The study of reactions and of the constitution of organic compounds.

Dr. VAN NAME :—

**\*58 Physical Chemistry. 1 hr.**

[See Course XVIII, C 11, page 174.]

**\*59 Physico-Chemical Methods. 4 hrs.**

[See Course XVIII, C 11, page 174.]

**\*60 Chemical Theory. 2 hrs.**

[See Course XVIII, D 19, page 175.]

**61 Electrochemical Preparations. 3 hrs.**

The preparation, by electrical means, of various inorganic and organic compounds.

**BIOLOGICAL SCIENCES**

GENERAL BIOLOGY, BOTANY, COMPARATIVE ANATOMY,  
ZOOLOGY, PHYSIOLOGY, PHYSIOLOGICAL CHEMISTRY,  
TOXICOLOGY, BACTERIOLOGY, HYGIENE

**GENERAL BIOLOGY**

Professor HARRISON, Professor EVANS, Assistant Professor  
COE, and Assistants :—

**\*65 Elementary Biology. 5 hrs.,**

*to count as 3 hrs.*

[See Course XX, A 1, page 183.]

## BOTANY

Professor EVANS and Dr. A. H. GRAVES :—

- 66 *General Botany of the Flowering Plants.* 6 hrs.,  
to count as 3 hrs.

Laboratory work and informal lectures. The various organs and tissues of the plant are studied with respect to their structure, development, and functions. Field excursions in the spring term, devoted to taxonomic study.

- 67 *Morphology of Plants.* 6 hrs.,  
to count as 3 hrs.

Laboratory work and informal lectures. Beginning with the simplest forms, the various groups of plants are taken up in suitable types, and their structure and development are studied and compared.

Dr. A. H. GRAVES :—

- 68 *Forest Botany.* 4 hrs. 1st term,  
to count as 1 hr.

Excursions devoted to the study of the trees and shrubs of New Haven and vicinity, paying especial attention to the characteristics by which they may be most readily recognized in the field.

- 69 *Diseases of Trees.* 3 hrs. 2d term, 1st half.

Lectures and laboratory work on the destructive diseases of the timber trees of the United States, their causes, nature, and remedies ; field excursions.

Professor EVANS :—

- 70 *Advanced Morphology and Taxonomy of Plants.*

The botanical laboratory is open throughout the year to properly qualified graduate students who may wish to pursue advanced studies along some line of morphological or taxonomic Botany.

Dr. DEAN :—

- 71 *Plant Physiology.*

Opportunity for study in Plant Physiology, particularly in its chemical features, is offered to graduate students who have a knowledge of plant morphology and histology.

## COMPARATIVE ANATOMY AND ZOOLOGY

Dr. COLE :—

- 72 *Invertebrate Zoology.* 6 hrs.,  
to count as 3 hrs.

Lectures, demonstrations, and dissections of invertebrate types. A course chiefly in the comparative anatomy of invertebrates, but taking up also habits, life-histories, embryology, and forms of economic interest.

Professor HARRISON and Dr. KUNKEL :—

- 73 *Embryology and Comparative Anatomy of Vertebrates.* 6 hrs.,  
to count as 3 hrs.

Lectures and laboratory work.

Professor FERRIS :—

- 74 *Comparative Morphology of the Vertebrate Brain.* 2 hrs.,  
to count as 1 hr.

A course consisting of dissections, demonstrations, and lectures, on the Embryology and Morphology of the Vertebrate Brain, with special reference to the human brain.

Dr. WOODRUFF :—

- 75 *General Physiology of the Lower Organisms.* 2 hrs.

An outline of the physiology of the lower organisms, particularly the Protozoa, including cell-structure, growth and regeneration, development, inheritance, origin of sex, and reactions to stimuli. Lectures and laboratory work.

- 76 *Parasitology.* 2 hrs. 2d term.

A general survey of animal and plant parasites (excepting the Bacteria). The relation of Protozoa to disease will be considered in some detail. Lectures and laboratory work.

- 77 *History of Biology.* 1 hr. 2d term.

A series of lectures on the development of the biological sciences from the earliest times to the present.

Dr. COLE :—

- 78 *Animal Behavior.* 2 hrs.  
a *Lectures.*

A comparative study of the behavior of organisms, from the simplest reactions of lower forms up to the psychology of the higher animals. Introductory or supplementary to human psychology.

- b *Laboratory.* Not less than 6 hrs.

Experimental laboratory work on special problems in the behavior of animals.

## Assistant Professor COE :—

- 79 *Forest Entomology.* 4 hrs. 2d term.

Lectures and practical exercises on such groups of insects as are of economic importance in the management of forests and the utilization of forest products.

- 80 *Biology of the Cell.* 5 hrs.

A practical study of the animal cell, with special attention to the origin, structure, and union of the sexual cells, the differentiation of the tissues, and the problems of growth, heredity, and evolution.

- 81 *Advanced Embryology.* 5 hrs.

Practical work on the development of certain types of invertebrates, followed by a comparative study of the development of the fish, amphibian, bird, and mammal.

## Professor HARRISON :—

- 82 *Experimental Embryology.* 1 hr.

Lectures on selected topics in the experimental study of development. A limited number of students may take up laboratory work in connection with this course.

- 83 *Biological Seminary and Journal Club.* 1 to 2 hrs.

Conferences on selected topics in biology ; reviews of books and current periodical literature.

## Professor HARRISON and Assistant Professor COE :—

- 84 *Research Work in Comparative Anatomy, Embryology, and Experimental Biology.*

Graduate students who have had proper preliminary training may take up the investigation of special problems. To such students the laboratory is open daily.

## PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

## Professor CHITTENDEN and Assistant Professor UNDERHILL :—

- \*86 *Physiology.* 1 hr.

[See Course XX, 29, page 185.]

## Professor CHITTENDEN :—

- 87 *Physiology of Nutrition.* 3 hrs. 2d half-year.

## Assistant Professor HENDERSON :—

- 88 *Physiology of Physical and Nervous Functions.* 2 hrs.

1st term and 1st half 2d term, to count as 1½ hrs.

Recitations and lectures on the Physiology of muscle-nerve, nervous system, special senses, respiration, and circulation. Reports by the students on assigned topics in the literature.

89 *Experimental Physiology.* 3 hrs., to count as 2 hrs.

A laboratory course to afford acquaintance with the methods of experimentation and demonstration of the physical and nervous functions of the higher animals.

Professor CHITTENDEN and Assistant Professor UNDERHILL :—

\*90 *Physiological Chemistry (Shorter Course).* 5 hrs.,  
to count as 2½ hrs.

[See Course XX, C 31, page 185.]

Professor MENDEL :—

91 *Physiological Chemistry.*

A course planned for graduate students who have sufficient knowledge of analytical and organic Chemistry and elementary Physiology or general Biology.

Assistant Professor HENDERSON and Dr. SCARBROUGH :—

92 *Experimental Pharmacology.* 5 hrs. 1st half 2d term,  
to count as 1 hr.

Laboratory work and lectures, with demonstrations upon the experimental methods of studying the non-toxic actions of drugs. The chemical detection and the poisonous actions of drugs are not included.

Professor CHITTENDEN :—

93 *Experimental Toxicology.* 2d term, 2d half.

A course of about twenty lectures, with demonstrations, on the physiological action of the more important mineral and alkaloidal poisons.

Professors CHITTENDEN and MENDEL :—

94 *Research Work in Physiological Chemistry.*

Opportunity for undertaking research work independently or under guidance is given; investigations are planned with reference to the needs and attainments of the individual.

95 *Physiological Seminary.* 2 hrs.

An informal study of the recent advances in Physiology and Physiological Chemistry is undertaken. The participants are required to prepare reports and reviews of papers appearing in the current physiological literature.

## Assistant Professor HENDERSON :—

- 96 *Hæmodynamics.* 3 hrs.

An advanced laboratory course in the methods of research upon the circulation. Open only to those already trained in the general principles and methods of Physiology.

## Assistant Professor RETTGER :—

- 97 *Bacteriology and Hygiene.* 2d term.

Laboratory work, supplemented by lectures and recitations. The course covers a period of twenty weeks, fifty exercises, and is designed for students of Chemistry and Biology. Ample opportunity is afforded also for advanced work and research.

- 98 *Bacteriology and Hygiene (Shorter Course).*

6 hrs. 2d term, 2d half.

Shorter course, adapted to the needs of students in municipal and sanitary engineering. Special attention is given to such topics as the bacteriology and the purification of water supplies.

- \*99 *Public Hygiene.* 2 hrs. 2d term, 1st half.

[See page 276.]

- 100 *Sanitary Science.* 1 hr. 1st term.

Ten lectures, with demonstrations. Essentially a course on the modern methods of bacteriological and biological study of the water and the purification of water supplies and sewage.

- 101 *Tropical Hygiene.* 2 hrs. 1st term.

A course of twenty lectures, with demonstrations. Discussion of climatic conditions, foods, and clothing, and their bearing on the health of the individual. Considerable attention is given to the more important tropical diseases and methods of prevention.

## THE GEOLOGICAL SCIENCES

## ELEMENTARY COURSES

## Professor DANA :—

- 105 *Mineralogy and Crystallography.* 6 hrs., to count as 3 hrs.

Practical study of mineral species by means of blowpipe analysis and other methods; mathematical study of the forms of crystals.

## Assistant Professor FORD :—

- 106 *Determinative Mineralogy.* 3 hrs. or more.

The object of this course is to gain familiarity with the common minerals, together with facility in their identification. It is

necessary that all who take the course have some familiarity with the principles of elementary Chemistry.

107 *Crystallography and Descriptive Mineralogy.* 2 hrs.

These two subjects are treated together, a group or class of crystals being first studied and then the mineral compounds belonging to that class. Illustrated by means of models and specimens from the Brush Collection.

Professor PIRSSON :—

\*108 *Elementary Petrology.* 1 hr. 2d term, 1st half.

[See page 285.]

\*109 *Elementary Structural and Dynamical Geology.*

3 hrs. 1st half-year.

[See page 285.]

Professors GREGORY and BARRELL :—

\*110 *General Geology.* 2 hrs.

[See Course XIX, B 23, page 177.]

Professor BARRELL and Mr. HUNTINGTON :—

111 *Geology with Field and Laboratory Work.* 3 hrs.,

*to count as 2 hrs.*

Practice in determining rock-making minerals and simple types of rocks, and in using and interpreting topographical and geological maps. Field work consisting of the collection of rock-types, study of structures, and the drawing of a detailed geological map of a restricted area.

Professor GREGORY, Mr. HUNTINGTON, and Mr. BOWMAN :—

\*112 *Physical Geography.* 3 hrs. 1st half-year.

[See Course XIX, A 1, page 177.]

Mr. BOWMAN :—

\*113 *The Geography of North America.* 2 hrs.

[See Course XIX, B 11, page 178.]

\*114 *The Geography of South America.* 2 hrs. 2d half-year,

*to count as 1 hr. for the year.*

[See Course XIX, B 13, page 178.]

Mr. HUNTINGTON :—

\*115 *Geography of Asia.* 2 hrs. 1st half-year,

*to count as 1 hr. for the year.*

[See Course XIX, B 15, page 178.]

## ADVANCED COURSES

## MINERALOGY

Assistant Professor FORD :—

119 *Advanced Crystallography.*

The chief features of this course are the measurement of the angles of crystals with the reflection goniometer, the plotting of the forms of crystals in the stereographic and linear projections, and the drawing of crystal forms and combinations.

120 *Optical Properties of Minerals.*

A course of lectures and laboratory work in which the optical properties of crystals are discussed and their optical constants determined experimentally.

121 *Original Investigation in Mineralogy and Crystallography.*

Those who are sufficiently advanced may undertake research work in Mineralogy and Crystallography.

## PETROLOGY

Professor PIRSSON :—

122 *Petrology.* 3 hrs. 2d term.

A course of fifty lectures on the history, origin, properties, and classification of rocks, both the igneous ones and the crystalline schists. In the latter the metasomatic and dynamic changes are treated. Illustrated by specimens, diagrams, etc.

123 *Petrology, Laboratory Courses.*

(a) Study and determination of the rock-making minerals by microscopical methods. Must be preceded by Course 120.

(b) Systematic Petrography. Illustrates, by the study of a collection of typical rock specimens and of the thin sections under the microscope, the facts and principles brought out in the lectures of Course 122.

(c) Study of typical collections, with specimens and sections, from localities which have been investigated and described; reading of the literature, largely in original French and German publications.

(d) Original investigation. In sequence to (a), (b), and (c), rocks of some special locality may be investigated by those sufficiently advanced. Work in the laboratory, library, and (usually) in the field is required.

Only those with previous training in Mineralogy and Geology are admitted to the courses in this group.



## STRUCTURAL GEOLOGY

Assistant Professor BARRELL :—

- 124 *Dynamic and Structural Geology.* 2 or 3 hrs.

A course dealing with such subjects as: ancient sedimentary formations, crustal movements, and the nature and results of igneous and metamorphic activities. A large amount of field work and library work is required.

- 125 *Problems in Structural Geology.*

A study of folds, faults, veins, metamorphism, mountain-making, etc., for those who wish to specialize in Geology. Problems for investigation in preparation of theses for advanced degrees. A knowledge of Petrography is required.

- 126 *Principles of Metamorphism and their Geological Application.*

In this course the chemical and physical principles of Metamorphism and the structural problems presented by the action of dynamic Metamorphism are studied. A good knowledge of general Geology and of microscopic Petrography is required.

## PHYSIOGRAPHY

Professor GREGORY and Mr. BOWMAN :—

- 128 *Physiography (A).* 5 hrs., to count as 3 hrs.

A study of the origin, development, and classification of land forms, followed by a study of the physiography of the United States. The exercises include lectures, field excursions, and the reading of topographical maps and of physiographical literature.

- 129 *Physiography (B).*

The origin, development, and classification of land forms, as illustrated by some area selected for special study.

Mr. BOWMAN and Mr. HUNTINGTON :—

- [\*130 *Geographic Controls in History.* 2 hrs. 2d half-year,  
to count as 1 hr. for the year.

[See Course XIX, C 33, page 180.]

Omitted in 1908-09.]

## ECONOMIC GEOLOGY

Professor IRVING :—

- 132 *Economic Geology.* 3 hrs. spring half term.

The principles of ore-deposition, and the structural relations, genesis, and geological occurrence of the ores of the chief metals and non-metallic products.

133 *Advanced Economic Geology.*

Lectures, recitations, and laboratory work. The distribution, chemistry, geology, and production of the ores of the metals and non-metallic products.

134 *Experimental Investigation of Metalliferous Ores.*

Chemical reactions of oxidation, etc., microscopic study of ores by reflected light.

## PALEONTOLOGY

Professor SCHUCHERT and Assistant Professor LULL:—

135 *Advanced Paleontology.* 6 hrs., to count as 3 hrs.

The object of this course is to acquaint the student with the structure, evolution, and classification of the various classes of invertebrate and vertebrate animals found as fossils.

136 *Advanced Stratigraphic Paleontology and Paleogeography.* 6 hrs., to count as 3 hrs.

In this course the student becomes acquainted with the essential or guide fossils which characterize the major divisions of geological time, and the distribution and character of the ancient seas and lands.

Assistant Professor LULL:—

\*137 *Organic Evolution.* 2 hrs., 1st half year.  
[See Course XIX, B 17, page 178.]138 *Geological Biology.* 2 hrs.

In this course organisms are the chief objects of study, and their nature, succession, relations to environment, ancestry, and time, and the principles of organic evolution in their geological relations, are examined.

Dr. EATON:—

139 *Comparative Osteology.* 2 hrs.

An elementary course, especially designed as a preparation for the study of Vertebrate Paleontology. Laboratory work in which the most important types of the vertebrate skeleton are studied and compared.

## GENERAL COURSES

Professor GREGORY:—

140 *Geology of Connecticut.*

With special reference to the surface features. Lectures, laboratory work, and field work.

141 *Field Geology.*

6 hrs., to count as 3 hrs.

This course consists of field work upon selected areas in the vicinity of New Haven, supplemented by lectures and laboratory exercises on the construction and use of topographical and geological maps.

## VII. MATHEMATICS

WILLIAM BEEBE, M.A.

ANDREW W. PHILLIPS, PH.D.

ERNEST W. BROWN, SC.D., F.R.S. JAMES PIERPONT, PH.D.

PERCEY F. SMITH, PH.D.

WILLIAM A. GRANVILLE, PH.D.

HERBERT E. HAWKES, PH.D.

LAURENCE E. HEWES, PH.D.

EARL G. BILL, PH.D.

WILLIAM R. LONGLEY, PH.D.

GEORGE M. CONWELL, PH.D.

Connected with the department are the SEMINARY ROOMS, the REFERENCE LIBRARY, the MATHEMATICAL LABORATORY, the COLLECTION of MODELS, and the MATHEMATICAL CLUB.

The SEMINARY ROOMS, which are at 90 High street, may be used by all students in Mathematics. They afford a place for students to meet for the discussion of mathematical questions and for study. There is a good departmental REFERENCE LIBRARY, and also a collection of drawings and models made by students of previous years illustrating various theories. Many of the lectures in this department in past years have been reported and are here to be found bound and ready for consultation.

The MATHEMATICAL LABORATORY occupies a commodious room on the floor below the seminary rooms. It is well equipped with tools and drawing instruments necessary to construct mathematical models. Students are given direction and advice for the proper and expeditious construction of models more or less elaborate, illustrating the subjects they are studying. Such models and drawings serve to develop the student's geometrical intuition as well as to make more clear the particular theory in hand. Students who expect to become teachers will find the laboratory most useful in acquiring facility in preparing simple models to illustrate subjects which they may later have to teach.

The COLLECTION OF MATHEMATICAL MODELS is one of the most extensive in the country and is constantly growing. Besides a very complete selection of plaster and thread models from Brill, Schilling, and others, the collection contains a large number of models which have been made under the direction of instructors of the department, illustrating the teaching of Solid Geometry, the Theory of Equations, and various kinematical principles, as well as the theory of twisted curves and surfaces.

The MATHEMATICAL CLUB holds fortnightly meetings, in the Sloane Laboratory, at which are presented summaries of articles in current periodicals and of recent works on pure and applied Mathematics, descriptions and models of new apparatus, also papers containing the results of the original investigations of the instructors and advanced students in this department. All students are encouraged to prepare papers which, if not original, give a comprehensive survey of some field of Mathematics or treat from a new standpoint some question of general interest to the members of the club.

LECTURES are occasionally given before the club by professional experts.

#### GENERAL STATEMENT OF THE COURSES

The courses fall into three groups, as follows: INTRODUCTORY COURSES; ADVANCED COURSES; ONE-HOUR COURSES.

The INTRODUCTORY COURSES are intended for students who have completed a year's work in the Calculus and wish to obtain a broad and thorough knowledge of the elements of higher pure or applied Mathematics, as well as for those students who wish to specialize in Physics, Engineering, or related subjects.

The ADVANCED COURSES, to which the introductory courses are prerequisite, are adapted to the needs of students specializing in Mathematics and kindred branches. Special topics are treated in detail and the results of modern research are presented, the aim being to develop

the student's powers and equip him for independent investigation.

The acquisition of a broad knowledge of modern methods and results in the various fields of Mathematics being difficult, a number of ONE-HOUR COURSES are annually offered, each consisting of one lecture a week throughout the year. In these the range of topics of the advanced courses is covered in a less special way and, in addition, certain subjects are treated which do not naturally lie within the scope of any of the advanced courses. The object sought in all one-hour courses is to give the student breadth of information without making too great demands upon his time.

Titles of courses offered (without separate grouping of the one-hour courses) are as follows:

#### INTRODUCTORY COURSES

- |  |  |
|--|--|
| 1 Algebra and Analytical Geometry.           | 6 Geometrical Transformations of the Plane and of Space. |
| 2 Theory of Functions of a Complex Variable. | 7 Differential Geometry.                                 |
| 3 Projective Geometry.                       | 8 Mechanics.   |
| 4 Functions of Real Variables.               | 9 Advanced Calculus.                                     |
| 5 Differential Equations.                    | 10 Teachers' Course in Geometry.                         |

#### ADVANCED COURSES

- |                                  |  |
|----------------------------------|--|
| 16 Advanced Theory of Functions. | 33 Continuous Groups of Transformations. |
| 17 Theory of Numbers.            | 34 Geometry of Contact Transformations.  |
| 18 Elliptic Functions.           | 35 Differential Geometry.                |
| 19 Advanced Algebra.             | 36 Graphical and Numerical Computations. |
| 20 Theory of Equations.          | 37 Advanced Mechanics.                   |
| 23 Calculus of Variations.       | 38 Celestial Mechanics.                  |
| 30 Advanced Analytical Geometry. |  |
| 31 Higher Geometry.              |  |
| 32 Geometrical Analysis.         |  |

#### ● COURSES ANNOUNCED UNDER PHYSICS

- |                                      |                                  |
|--------------------------------------|----------------------------------|
| Physical Optics.                     | Electromagnetic Theory of Light. |
| Theory of Errors.                    | Vectors.                         |
| Introduction to Theoretical Physics. | Thermodynamics.                  |

## DESCRIPTION OF THE COURSES

## INTRODUCTORY COURSES

Assistant Professor HAWKES :—

- \*1 *Algebra and Analytical Geometry.* 2 hrs.

[See Course XVI, B 11, page 168.]

Professor PIERPONT :—

- 2 *Theory of Functions of a Complex Variable.* 2 hrs.

An elementary treatment of analytic functions. Infinite Series and Products. Applications to hyperbolic, gamma, Bessel's, and elliptic functions.

- 3 *Projective Geometry.* 2 hrs.

Homogeneous coördinates, ideal elements, analytic and synthetic treatment of conics and quartics.

- 4 *Functions of Real Variables.* 2 hrs.

A rigorous development of the foundations of the calculus. Critical study of standard texts.

Dr. HEWES :—

- 5 *Differential Equations.* 1 hr.

Elementary methods of integration, with solution of problems by the students ; applications to Geometry and Mechanics ; geometric study of solutions of equations of the first order.

- [6 *Geometrical Transformations of the Plane and of Space.* 2 hrs.

Properties of Euclidian transformations, collineations, correlations, inversions, dilatations, and birational transformations, including resolution and composition into groups.

Omitted in 1908-09.]

Dr. GRANVILLE :—

- 7 *Differential Geometry.* 2 hrs.

Parametric representation of plane and skew curves and surfaces, theory of contact, curvature, differential invariants, intrinsic equations, trajectories, conformal and spherical representation, lines of curvature, asymptotic lines.

Professor BROWN :—

- \*8 *Mechanics.* 2 hrs.

[See Course XVI, B 15, page 168.]

- \*9 *Advanced Calculus.* 3 hrs.

[See Course XVI, C 17, page 169.]

Assistant Professor HAWKES :—

\*10 *Teachers' Course in Geometry.* 2 hrs.

[See Course XVI, 19, page 169.]

#### ADVANCED COURSES

Professor PIERPONT :—

16 *Advanced Theory of Functions.* 2 hrs.

Selected topics, such as the theory of aggregates, transfinite numbers, infinite series, analysis of geometric notions, development of functions.

[17 *Theory of Numbers.* 2 hrs.

Divisibility, congruences, quadratic residues, Diophantine equations, quadratic forms, algebraic numbers.

Omitted in 1908-09.]

[18 *Elliptic Functions.* 2 hrs.

Functions of Jacobi and Weierstrass, transformation theory, modular functions, applications to Geometry and mathematical Physics, introduction to the theory of Abelian functions.

Omitted in 1908-09.]

Assistant Professor HAWKES :—

[19 *Advanced Algebra.* 2 hrs.

Systems of linear equations, linear transformations, invariants, quadratic forms, elementary divisors, theory of elimination.

Omitted in 1908-09.]

20 *Theory of Equations.* 2 hrs.

A treatment of those topics of Algebra that are most effectively approached by means of the theory of finite groups.

Dr. LONGLEY :—

23 *Calculus of Variations.* 1 hr.

The modern theory, with applications to Geometry and Mechanics.

Dr. BILL :—

30 *Advanced Analytical Geometry.* 2 hrs.

Singularities of curves and surfaces, cubic and quartic curves, linear systems of quadrics.

Professor P. F. SMITH :—

[31 *Higher Geometry.* 2 hrs.

A continuation of Course 30, including advanced work in the topics of that course.

Omitted in 1908-09.]

- [32 *Geometrical Analysis.* 1 hr.  
Exposition of Grassmann's *Ausdehnungslehre* and applications; relations to the barycentric calculus of Möbius, vector analysis, quaternions, etc.  
Omitted in 1908-09.]
- 33 *Continuous Groups of Transformations.* 2 hrs.  
A study of Sophus Lie's theory of continuous groups with applications.
- [34 *Geometry of Contact Transformations.* 2 hrs.  
A study of contact transformations with applications.  
Omitted in 1908-09.]

Dr. CONWELL :—

- [35 *Differential Geometry.* 2 hrs.  
Invariant theory of binary quadratic differential forms, equations of Gauss and Codazzi, theory of applicability, infinitesimal deformation, rectilinear congruences, orthogonal systems.  
Omitted in 1908-09.]

Dr. HEWES :—

- 36 *Graphical and Numerical Computation.* 1 hr.  
Including an exposition of the theory and practice of d'Ocagne's *Nomographie*, and various topics in numerical approximation.
- 37 *Advanced Mechanics.* 2 hrs.  
A continuation of Course 8, including Lagrange's equations and theoretical dynamics, with numerous applications to particles and rigid bodies.

Professor BROWN :—

- [38 *Celestial Mechanics.* 2 hrs.  
The problems of two and three bodies; the motions of planets and satellites; general methods, especially the variation of arbitrary constants; the methods of Poincaré.  
Omitted in 1908-09.]

#### COURSES ANNOUNCED UNDER PHYSICS

The following courses, given by Professors in the department of Physics, but falling also under the head of Mathematics, are announced in detail in the group of courses in Physics: *Physical Optics* and *Theory of Errors* (Professor HASTINGS); *Introduction to Theoretical Physics*



and *Electromagnetic Theory of Light* (Professor BUMSTEAD); *Vectors* (Assistant Professor BEACH); *Thermodynamics* (Assistant Professor L. P. WHEELER).

See also the section on Engineering.

### VIII. ENGINEERING

CHARLES B. RICHARDS, M.A.

JOHN H. HAMMOND, M.A.

EDWIN H. LOCKWOOD, PH.D.

LOUIS D. HUNTOON, MN.E., M.A.

A. JAY DuBOIS, C.E., PH.D.

SAMUEL E. BARNEY, C.E.

JOHN C. TRACY, C.E.

JOHN D. IRVING, PH.D.

W. K. SHEPARD, PH.D.

Special Reference Libraries, composed chiefly of Engineering Journals and the Transactions of Engineers' Societies, are connected with the department. They contain complete series of the most valuable of these Journals, and a large number of others are received as issued, forming a valuable collection of current journal literature on Engineering.

The Laboratories in Winchester Hall afford facilities for research in various lines of Engineering work, and the HAMMOND METALLURGICAL LABORATORY affords ample facilities in assaying, metallurgy, ore-dressing, etc.

The ENGINEERS' CLUB meets at intervals, in North Sheffield Hall, for the reading and discussion of papers on subjects relating to the different branches of Engineering.

LECTURES are occasionally given before the club by professional experts.

### MECHANICAL ENGINEERING

Courses 1, 2, and 3, arranged for candidates for the degree of Mechanical Engineer, are open also to special graduate students, who are allowed in certain cases to take selected parts. Candidates for the degree of Mechanical Engineer are required to take also courses 5 and 36 in Mathematics (*Differential Equations and Graphical and Numerical Computation*), to sustain a final exami-

nation, and to present a satisfactory thesis on a subject approved by the Professor in charge of the courses in Mechanical Engineering.

Professor RICHARDS :—

1 *Machine-Designing.*

In this course the student is engaged in practical exercises under the guidance of the Professor in charge, investigating and designing machinery.

Assistant Professor LOCKWOOD :—

2 *Thermodynamics and Mechanics of Heat Engines.*

An advanced course in the study of Steam and Gas Engines, Steam Boilers, etc., supplementary to the courses given in these subjects to the undergraduate students in Mechanical Engineering. Lectures (two hours a week), investigations, and experimental work.

Dr. SHEPARD :—

3 *Mechanics of Materials.*

2 hrs.

An advanced course, supplementary to the course given in this subject to the undergraduate students in Mechanical Engineering.

### CIVIL ENGINEERING

Candidates for the degree of Civil Engineer are required to take, in addition to courses 4 and 5 (which are primarily for regular candidates for the degree of Civil Engineer, but are open also to other graduate students who are properly qualified), a selected course in Applied Mathematics and, when the facilities in the physical laboratory permit, a course of laboratory work under the superintendence of the Professors in charge. They are also required to sustain a final examination, and to present a satisfactory thesis upon a subject approved by the Professor in charge of the course. To special students, not candidates for the degree of Civil Engineer, a selection of special topics is allowed.

Professor DuBois :—

4 *Mechanics of Engineering.*

5 *Construction and Design.*

Assistant Professor BARNEY :—

6 *Geodesy and Practical Astronomy.* 2d term.

Methods of observation ; theory of least squares ; adjustment of observations. The study of Practical Astronomy embraces the use of the sextant and engineer's transit for determining time, latitude, azimuth, and needle-variation.

7 *Railway Surveying.* Four weeks in June and July.

A preliminary line for a railroad is run out, and from the contour map so obtained a final line is located and cross-sectioned, and estimates are made for construction. The final maps and estimates are made in October.

8 *Sanitary Engineering.*

First term: Water Supply. Methods of collecting and distributing water ; designing of reservoirs, pipe systems, and filtration plants. Second term: Sewerage. Design and construction of sewer systems, plants for sewage disposal, etc.

Assistant Professor TRACY :—

9 *Graphic Statics.*

A rapid review of fundamental principles, followed by a discussion of those problems in which the methods of Graphic Statics can be used to advantage.

### MINING AND METALLURGY

Instruction in Mining and Metallurgy is in charge of John Hays Hammond, M.A., Professor of Mining Engineering, Louis Doremus Huntoon, M.N.E., Professor of Mining and Metallurgy, and John Duer Irving, Ph.D., Professor of Economic Geology. The HAMMOND METALLURGICAL LABORATORY of the Sheffield Scientific School is devoted entirely to the subjects of Mining, Metallurgy, and Ore-Dressing. It contains well equipped laboratories, research rooms, and collections, as well as a departmental library. The laboratories have been planned to give a thorough training in the practical work of assaying and the treatment of ores, and contain small-sized dressing appliances for ore-dressing on a commercial scale.

## C. THE SOCIAL SCIENCES, LAW, HISTORY, PHILOSOPHY, AND EDUCATION

### IX. THE SOCIAL SCIENCES, LAW, AND HISTORY

ARTHUR M. WHEELER, LL.D.	SIMEON E. BALDWIN, LL.D.
WILLIAM G. SUMNER, LL.D.	CHARLES H. SMITH, LL.D.
BERNADOTTE PERRIN, PH.D., LL.D.	THEODORE S. WOOLSEY, LL.D.
GEORGE B. ADAMS, PH.D., LITT.D.	HENRY W. FARNAM, M.A., R.P.D.
F. WELLS WILLIAMS, B.A.	EDWARD V. RAYNOLDS, D.C.L.
WILLISTON WALKER, PH.D., D.D.	HARRY B. FERRIS, M.D.
IRVING FISHER, PH.D.	OLIVER H. RICHARDSON, PH.D.
GUY S. CALLENDER, PH.D.	HENRY C. EMERY, PH.D.
CLIVE DAY, PH.D.	MAX FARRAND, PH.D.
WILBUR CORTEZ ABBOTT, M.A.	GEORGE GRANT MACCURDY, PH.D.
WILLIAM B. BAILEY, PH.D.	CHALFANT ROBINSON, PH.D.
ALBERT G. KELLER, PH.D.	CHARLES P. SHERMAN, D.C.L.
EMERSON DAVID FITE, PH.D.	HENRY B. WRIGHT, PH.D.
HIRAM BINGHAM, PH.D.	FRED R. FAIRCHILD, PH.D.
JOHN P. NORTON, PH.D.	KAN-ICHI ASAKAWA, PH.D.
AVARD L. BISHOP, PH.D.	LESTER W. ZARTMAN, PH.D.
THEODORE H. BOGGS, PH.D.	GEORGE T. SURFACE, PH.D.

The BOOCOCK LIBRARY (founded in 1896 by Mr. and Mrs. S. W. Boocock) is a departmental library in the Social Sciences, which supplies students with the most rare and special works in those subjects which the University Library does not contain. Any books needed by special students will be obtained. Students of all degrees of advancement will find reference books in the Boocock Library, and for access to it are invited to apply to Professor Sumner.

A BIBLIOGRAPHY OF ECONOMIC AND KINDRED SUBJECTS is maintained by the instructors in Economics, and is available to students in the University Library. The department of Economics also collects statistical charts, tables, and slides, which are preserved in E, Osborn Hall.

The COMMERCIAL MUSEUM, including the exhibit of the U. S. Bureau of Plant Industry at the World's Fair in Portland, Oregon, is temporarily under requisition, for exhibition purposes, by the United States Department of Agriculture.

The ANTHROPOLOGY CLUB meets, generally on alternate Tuesday evenings, in Room 1, Herrick Hall, for papers and discussions in Anthropology (Historical and Somatic), Ethnology, Sociology, and Demography.

The POLITICAL SCIENCE CLUB, comprising the graduate students and instructors in the Social Sciences, has its headquarters in the University Library. The room is open to members at all times. The departmental library there installed contains a collection of economic works generally required by advanced students. Fortnightly meetings are held during term-time. Students have opportunities to visit such charitable and penal institutions and agencies of social betterment as are in New Haven or within easy access of it.

#### ANTHROPOLOGY AND SOCIOLOGY

For a course in *Bibliography*, see III, 85. For *Organic Evolution* and certain other courses bearing on Anthropology, see group VI.

Professor SUMNER:—

\*1 *The Science of Society.* 2 hrs.

[See Course XXIV, C 7, page 197.]

2 *Anthropology.* 2 hrs.

A careful study of Ranke's *Der Mensch* (2d ed.), with an examination of the separate topics by means of all the appropriate material.

3 *The Self-Perpetuation of Society.* 2 hrs.

A historical and ethnological study of the evolution of the marriage institution, the family, and population.

[4 *The Mental Reactions.* 2 hrs.

An ethnological study of the development of the mental processes and of the growth and contents of the mental outfit of the human race in the earlier stages.

Omitted in 1908-09.]

[5 *The Beginnings of the Industrial Organization.* 2 hrs.

An ethnological study of the industrial organization from its earliest beginnings.

Omitted in 1908-09.]

Professor FERRIS :—

- \*6 *The Natural History of Man.* 2 hrs.

[See Course XXIV, C 11, page 197.]

Professor KELLER :—

- \*7 *Anthropology.* 2 hrs.

[See Course XXIV, B 1, page 197.]

- [\*8 *Culture-History.* 2 hrs.

[See Course XXIV, C 19, page 198.]

- \*9 *Ethnology.* 2 hrs.

[See Course XXIV, C 15, page 198.]

- \*10 *Historical Anthropology.* 2 hrs.

[See Course XXIV, C 17, page 198.]

Assistant Professor BISHOP and Dr. BOGGS :—

- \*13 *Commercial Geography.* 3 hrs. 2d half-year.

[See Course XIX, A 1, page 177.]

Dr. MACCURDY :—

- 14 *Physical Anthropology.* 2 hrs. 1st half-year.

A study of man's position in the zoölogical scale; characters of race, age, sex, etc. Students have access to collections and practice in the use of laboratory apparatus. This course is primarily intended for those who have taken course 6.

- 15 *Prehistoric Archæology of Europe.* 2 hrs. 2d half-year.

Man's place in the geological scale. Physical characters of the earliest known races, their environment and stages of culture. Illustrated by specimens from the Museum collections.

- 16 *American Archæology.* 2 hrs. 2d half-year.

Lectures and reading, with access to the Museum collections.

Assistant Professor BISHOP :—

- \*17 *Transportation Systems.* 2 hrs.

[See Course XXIV, B 3, page 197.]

- \*18 *Natural History of Commerce.* 2 hrs.

[See Course XXIV, C 13, page 198.]

Dr. BOGGS :—

- \*19 *Colonization.* 2 hrs.

[See Course XXIV, B 5, page 197.]

## ECONOMICS AND LAW

For a course in *Bibliography*, see III, 85.

Professor FARNAM :—

- [23 *The Principles of Public Finance.* 2 hrs.

A systematic treatment of government expenditure, government income, and government debt, illustrated by the financial statistics and experience of modern states.

Omitted in 1908-09.]

- [24 *Social Politics.* 2 hrs.

A critical examination of the results of legislation designed to strengthen the economic position of the weaker social classes.

Omitted in 1908-09.]

- [25 *Pauperism and Crime.* 1 hr.

A study in social pathology, in which the causes of, and the leading methods of dealing with, pauperism and crime are treated historically and critically.

Omitted in 1908-09.]

- [26 *The Modern Labor Movement.* 2 hrs.

An historical study of the efforts made by wage workers to improve their condition, together with a critical examination of the economic theories which relate to the movement.

Omitted in 1908-09.]

Professor FISHER :—

- 27 *Currency and Prices.* 2 hrs.

The relation of money and circulating credit to price-levels ; methods of constructing index numbers ; inflation and its application to the crisis of 1907 ; statistics and history of prices.

- [28 *Theory of the Distribution of Wealth.* 2 hrs.

A study—theoretical, statistical, and historical—of the accumulation and dissipation of wealth among social classes.

Omitted in 1908-09.]

Professor CALLENDER :—

- [29 *Economic History of the United States.* 2 hrs.

This course describes the economic evolution of the United States from the simple agricultural communities of colonial times to the highly diversified industrial society of the present. Each student will be expected to investigate one topic in the library under the direction of the instructor.

Omitted in 1908-09.]

## Professor EMERY :—

- \*30 *Elementary Economics.* 1 or 3 hrs.

[See Course XXV, A 1, page 200.]

- 31 *Commerce and Commercial Policy in the Nineteenth Century.* 2 hrs.

A study of the growth of international trade and the changes in commercial policy, especially in the leading countries of Europe.

- 32 *History of Economics, Part I.* 2 hrs.

The history of economic ideas, with special reference to economic policy, from the Middle Ages to the middle of the nineteenth century. Lectures and readings in contemporary authors.

- [33 *History of Economics, Part II.* 2 hrs.

A continuation of the above course, given in alternate years. It deals with the later reactions from the classical school, protectionism, socialism, and the historical school.

Omitted in 1908-09.]

## Professor DAY :—

- 34 *Economic Organization.* 3 hrs. 2d term,  
to count as 2 hrs. for the year.

Recent development of the industrial organization in Europe and the United States; the national organization of agriculture, manufactures, and commerce in the leading countries of contemporary Europe.

- 35 *Economic History.* 3 hrs. 1st term, 2 hrs. 2d term.

The history of agriculture, manufactures, and commerce in Europe from the later middle ages to the nineteenth century, with reference to the conditions of the time and to modern economic, social, and political theories.

- 36 *Industrial History of the United States.* 3 hrs. 1st term,  
to count as 1 hr. for the year.

With or after course 29.

Elementary investigations in the economic history of the United States, introductory to a knowledge of methods and sources. Individual work in conference with the instructor.

## Dr. SURFACE :—

- 37 *Industries.* 2 hrs.

This course will consist of a study of the representative industries in the leading commercial countries of the world. Each industry discussed will be considered with reference to its economic foundations, evolution, and present status.



## Assistant Professor BAILEY :—

- \*39 *Elementary Statistics.* 2 hrs.

[See Course XXV, 43, page 203 ]

- \*40 *American Social Conditions.* 3 hrs.

[See Course XXV, B 9, page 200.]

- 41 *Practical Sociology.* 2 hrs.

- 42 *Labor Problems.* 1 hr.

The conflicts between labor and capital, and the methods employed to obtain industrial peace.

- 43 *Practical Philanthropy.* 2 hrs.

The aim of this course is, by means of lectures and individual work in the various charitable organizations of the city, to fit men to take charge of such associations or of the welfare work for factories.

## Assistant Professor NORTON :—

- \*44 *Trade Statistics.* 2 hrs.

[See Course XXV, 45, page 203.]

- 45 *Statistical Analysis.* 1 hr.

Methods of fitting curves to a series of statistics in analysis of relations among variables ; also the theory of correlation of two or more variables. The methods of Pearson, Yule, and Galton will be discussed.

- \*46 *Railroads.* 2 hrs.

[See Course XXV, C 17, page 201.]

## Assistant Professor NORTON and Dr. ZARTMAN :—

- \*47 *Corporation Economics and Accounting.* 3 hrs.

[See Course XXV, B 7, page 200.]

## Assistant Professor FAIRCHILD :—

- \*48 *Financial History of the United States.*

3 hrs. first two-thirds of year,  
to count as 2 hrs. for the year.

[See Course XXV, B 3, page 200.]

- \*49 *Banking.* 3 hrs. last third of year,

to count as 1 hr. for the year.

[See Course XXV, B 5, page 200.]

- \*50 *Public Finance.* 2 hrs.

[See Course XXV, C 15, page 201.]

Dr. ZARTMAN :—

\*51 *Insurance.* 2 hrs.

[See Course XXV, 47, page 203.]

Professor S. E. BALDWIN :—

\*52 *American Constitutional Law.* 2 hrs.

[See Course XXV, 53, page 204.]

Professor WOOLSEY :—

\*53 *International Law.* 2 hrs.

[See Course XXV, D 55, page 204.]

Professor RAYNOLDS :—

54 *Comparative Constitutional Law.* 2 hrs.

A comparative study of the typical forms of state organization and of constitutional law and practice as developed in modern constitutional states. Special attention is given to the subject of Federal States and other State-complexes.

55 *The French Codes.* 2 hrs.

A study of the civil and penal codes with references to commentaries and judicial decisions. Text books: *Les Codes Français*, or *Le Code Civil* and *Le Code Penal*, any recent edition.

56 *The German Imperial Code.* 1 hr.

A study of the civil code of the German Empire, with explanation in regard to the division of legislative power between the Empire and the several States, and some consideration of the supplementary legislation of the latter. Text-book: *Das Bürgerliche Gesetzbuch für das Deutsche Reich*.

57 *Spanish Law.* 1 hr.

The Spanish codes and Spanish legal institutions, with special reference to our colonial dependencies. Text-books: *Códigos Civil Español* or Walton's *Civil Law in Spain and Spanish America*.

Assistant Professor SHERMAN :—

\*58 *Roman Law.* 1 hr.

[See page 506.]

\*59 *Roman Law.* 1 hr.

[See page 509.]

60 *Roman Law.* 2 hrs.

Readings from and consideration of Gaius, *Theodosian Code*, *Corpus Iuris Civilis*, and *Basilica*; study of selected cases and leading titles. Krueger, Mommsen, and Schoell's *Corpus Iuris Civilis* and Sohm's *Institutes*. Open only to those who have a reading knowledge of Latin.

61 *Canon Law.* 1 hr.

Lectures on the origin and development of Canon law, with special attention to the *Corpus Juris Canonici* and its influence on English and American law.

For another course in *Roman Law*, see I, 40.

## HISTORY

A few of the courses in Classical and Indo-Iranian Philology and in Semitic Languages and Biblical Literature are mainly or partly historical in character, dealing with *Greek*, *Roman*, *Semitic*, and *Church History*. For courses in *Latin Palæography* and in *Bibliography*, see I, 45, and III, 85. For *Physical Geography*, *Geography of North America*, *Geography of South America*, *Geography of Asia*, and *Geographic Controls in History*, see VI, 112-115, and 130.

Professors G. B. ADAMS and FARRAND :—

64 *Methods of Historical Research and Criticism.* 1 hr.

The first half of this course consists of a discussion of the principles of historical criticism. Several typical problems of internal and external criticism are examined by the class and thoroughly analyzed. The second half, conducted by Professor Adams, consists of practical exercises in the study of selected historical documents.

Assistant Professor WILLIAMS :—

\*65 *Ancient Oriental Nations from the Earliest Times.* 2 hrs.

[See Course XXIII, B 3, page 192.]

Professor PERRIN :—

66 *Outline Survey of Ancient History.* 2 hrs.

[See Course I, 16, page 325.]

67 *Herodotus.* 3 hrs.

[See Course I, 2, page 323.]

Assistant Professor H. B. WRIGHT :—

68 *The War with Hannibal.* 2 hrs.

A critical study of the ancient sources and of the modern histories which deal with the war. An introduction to the problems of Roman historiography.

Professor WALKER :—

69 *General Church History (First Course).* 2 hrs.

The aim of this course is to present an outline of Church history from the beginnings of Christianity to the end of the great Papal schism.

70 *Christian Literature from Clement of Rome to Eusebius.*

1 hr.

The attempt is made to familiarize the student with characteristic examples of the writings of the chief authors of the post-Apostolic period, and especially to gain a conception of Christianity as it was understood by them.

71 *The Christian Church.*

1 hr. 2d term.

A discussion of the development of the Church as an institution; the theories of its origin, nature, membership, and authority; its officers and organization; and an attempt at a constructive presentation of its nature and functions.

Professors G. B. ADAMS and WALKER :—

72 *Medieval Institutions.*

A two or three years' course. The seminary method is employed throughout and large use is made of the original material. A rapid-reading knowledge of Latin, German, and French is required.

## [a Professor G. B. ADAMS.

2 hrs.

From later Roman and early German institutions to and including the origin of feudalism.

Omitted in 1908-09.]

## b 1 Professor WALKER.

1 hr.

Second year's course covering the French institutions of the feudal period in general and with special reference to their development from Louis VI to Louis IX.

## b 2 Professor G. B. ADAMS.

2 hrs.

The second year's course opens with a somewhat detailed study of feudal institutions of the tenth and eleventh centuries, and then follows the institutional development in England from the Norman conquest to the establishment of parliament.

Assistant Professor F. W. WILLIAMS :—

\*73 *Medieval Asia and the Mohammedan Conquest.*

2 hrs.

[See Course XXIII, B 11, page 193.]

Dr. ASAKAWA :—

74 *Institutional History of Japan.*

2 hrs.

An examination into the institutional life of Japan (1) before the Reform of the seventh century, (2) during the bureaucratic period, (3) during the feudal ages between 1185 and 1600, (4) under the Tokugawa, and (5) at the downfall of the feudal system.

## Professor WALKER :—

- 75 *General Church History (Second Course).* 2 hrs.

This course is in continuation of course 69, but may be taken independently of it.

- 76 *Outline Sketch of the History of Christian Doctrine.* 1 hr.

A survey of the development of Christian thought from the Apostolic age to the present.

- 77 *Four Eminent Theologians: Augustine, Aquinas, Calvin, Edwards.* 1 hr. 2d term.

In this course a brief outline of the life of each of these theologians is given; but the chief endeavor is to acquaint the student with their theological and philosophical significance. Characteristic portions of the writings of each are examined.

## Assistant Professor RICHARDSON :—

- \*78 *The Renaissance and Reformation.* 2 hrs.

[See Course XXIII, B 15, page 193.]

- \*79 *Modern European History to 1789.* 2 hrs.

[See Course XXIII, B 17, page 193.]

- 80 *Seminary in French History.* 1 hr.

An examination of the fundamental constitutional enactments, practices, and theories of the Old Régime. The student is expected to acquire a degree of familiarity with the most important documentary and narrative sources for the Bourbon period.

- [81 *Studies in the History of Brandenburg-Prussia.* 1 hr.

Especial attention is given to economic and constitutional developments under the Great Elector. Lectures, and the criticism of select documents upon special subjects.

Omitted in 1908-09.]

## Professor A. M. WHEELER :—

- 82 *History of Treaties, 1763-1815.* 1 hr.

A research course.

- \*83 *History of Europe since 1789.* 2 hrs.

[See Course XXIII, C 33, page 195.]

## Professor G. B. ADAMS :—

- \*84 *English Constitutional History to the Present Time.* 2 hrs.

[See Course XXIII, C 35, page 195.]

## Dr. ROBINSON :—

- 85 *The History of England in the Fourteenth Century.* 1 hr.

A research course with occasional lectures.

Assistant Professor RICHARDSON :—

86 *English History from the Accession of the Tudors to the Reign of William and Mary.*

A research course extending through two years.

a *From 1485 to 1603 (First Year).* 2 hrs.

Particular attention is paid to Henry VII and to constitutional developments under Henry VIII and Elizabeth.

[b *From 1603 to 1688 (Second Year).* 2 hrs.

The reign of James I and the constitutional history of the Puritan Revolution receive especial attention.

Omitted in 1908-09.]

Professor A. M. WHEELER :—

87 *Constitutional and Political History of England since 1760.* 2 hrs.

Lectures and required reading.

Dr. FITE :—

\*88 *Modern European Governments.* 2 hrs.

[See Course XXIII, B 21, page 194.]

Professor FARRAND :—

\*89 *The Expansion of European Settlements in America.* 2 hrs.

[See Course XXIII, B 23, page 194.]

Professor ABBOTT :—

90 *The British Empire, 1760-1785.* 2 hrs.

A seminary course on the history of England and the colonies during the first twenty-five years of the reign of George III, with special reference to the American Revolution.

91 *The Restoration, 1660-1688.* 2 hrs.

A seminary course on the history of England during the reigns of Charles II and James II, including a study of international European relations.

Omitted in 1908-09.]

92 *Historical Writers, England and America.* 1 hr.

A critical and comparative study of the principal English and American historians, their materials, methods of investigation and presentation, with general consideration of English and American historiography.

Professor FARRAND :—

\*93 *American History, 1781-1860.* 2 hrs.

[See Course XXIII, B 25, page 194.]

94 *Formation of the Constitution of the United States.* 2 hrs.

A seminary course on the conditions which led to the Federal Convention of 1787 and on its work.

Professor C. H. SMITH :—

96 *American History (Constitutional).* 2 hrs.

A study of the Federal Constitution from the historical point of view. Lectures and collateral reading, with an examination at the close of the course.

97 *The United States since 1860.* 2 hrs.

The first half-year is given to a study of the Civil War; the second half, to a study of Reconstruction and some other important features of our recent history. A research course, with weekly reports and discussions.

Dr. BINGHAM :—

\*98 *Latin America.* 3 hrs.

[See Course XXIII, C 37, page 195.]

[\*99 *History of South America, chiefly in the Nineteenth Century.* 2 hrs. 1st half-year

[See Course XXIII, B 28, page 194.]

Omitted in 1908-09.]

Assistant Professor F. W. WILLIAMS :—

\*100 *Modern East-Asiatic History.* 2 hrs.

[See Course XXIII, B 29, page 194.]

[\*101 *European Colonies in Asia and Africa.* 2 hrs.

[See Course XXIII, C 45, page 196.]

Omitted in 1908-09.]

102 *Diplomatic Intercourse with Asiatic Nations.* 2 hrs.

A special study of the relations between the states of Eastern Asia, Europe, and America, chiefly during the nineteenth century.

103 *Chinese Culture and Institutions.* 2 hrs.

A research and reading course, dealing with the history, language, literature, government, arts, and economic and social condition of the Chinese Empire. An investigation of the bases of Far-Eastern civilization.

Dr. ASAKAWA :—

\*104 *Japanese History.* 2 hrs.

[See Course XXIII, B 31, page 195.]

\*105 *History of Art, Thought, and Customs in Japan.* 2 hrs.

[See Course XXIII, C 49, page 196.]

## X. PHILOSOPHY

CHARLES M. BAKEWELL, PH.D.      GEORGE M. DUNCAN, LL.D.  
CHARLES H. JUDD, PH.D.      E. WASHBURN HOPKINS, PH.D., LL.D.  
AMBROSE W. VERNON, D.D.      ROSWELL P. ANGIER, PH.D.  
WILLIAM E. HOCKING, PH.D.      EDWARD H. CAMERON, PH.D.

The PHILOSOPHICAL SEMINARY ROOM, in Linsly Hall, is fitted up for the use of graduate students in Philosophy. It contains the departmental library (described below) and may be utilized for purposes of study at all times.

The HEALY PHILOSOPHICAL LIBRARY, founded by a gift of ten thousand dollars from Mrs. Susie Healy Camp, of Hartford, as a memorial of her father, William Arnold Healy, and located in the philosophical seminary room and adjacent stacks, consists of 1,500 volumes (to which additions are constantly being made), besides the current philosophical and psychological periodicals. It aims to afford all the advantages of a well selected consulting library for the students of philosophy.

The PSYCHOLOGICAL LABORATORY, in Herrick Hall, is thoroughly equipped for both instruction and original research. In addition to the provisions for work in experimental psychology, there are sections for work in educational psychology. Each student pursuing investigations is provided with space and apparatus. The results of accepted investigations are published in the *Yale Psychological Studies*.

The PHILOSOPHICAL CLUB, composed of the instructors in the department and all graduate students who take courses in philosophy, holds regular meetings. It is designed to afford opportunity for the presentation and discussion of the results of original research by its members, and for hearing addresses and papers from distinguished authorities on philosophical subjects who are not connected with the department as teachers. Addresses have been delivered before the Club by Professors Lloyd Morgan, John Watson, W. T. Harris, J. G. Schurman, William James, J. McKeen Cattell, Josiah Royce, Borden P. Bowne, John Dewey, G. H. Palmer, Hugo Münsterberg, and others.



For a course in *Bibliography*, see III, 85. For a course in *Mental Reactions*, see IX, 4.

Professor BAKEWELL :—

1 *Platonic Idealism.* 2 hrs.

The aim of this course is to give, on the basis of the Dialogues themselves, a constructive interpretation of the Platonic view of life. All the more important dialogues are read in translation.

[2 *The Philosophy of Aristotle.* 2 hrs.

A first-hand study of the philosophy of Aristotle. Critical reading of the *Categories*, the *Psychology*, Book iii, and the *Metaphysics*, Book xi. Familiarity with Greek is required. This course alternates with course 1.

Omitted in 1908-09.]

3 *Problems and Methods of Philosophy.* 2 hrs.

Development of the principles that underlie all rigorous philosophical procedure, followed by consideration of some of the more fundamental issues in contemporary philosophical discussions. The work throughout is expected to be constructive as well as critical.

\*4 *History of Philosophy.* 3 hrs.

[See Course XXI, A 61, page 187.]

\*5 *Modern Idealism.* 2 hrs.

[See Course XXI, B 9, page 188.]

Professor DUNCAN :—

6 *Principles of Logic.* 1 hr.

A course treating of the more important problems, and including an examination of the assumptions and criteria of induction.

7 *Epistemology.* 2 hrs.

A systematic course, both critical and constructive, in the philosophy of knowledge. All the important problems of epistemology are considered.

8 *Metaphysics.* 2 hrs.

An advanced course, dealing with the fundamental problems relating to the nature and connections of reality—the Soul, the World of Things, and the Absolute.

[9 *Philosophical Criticism.* 2 hrs.

Reading and discussion of Kant's *Critique of Pure Reason* and *Prolegomena to any Future Metaphysics*, with especial attention to the problems of epistemology and metaphysics.

Omitted in 1908-09.]

10 *Philosophy of Mind.* 2 hrs.

Beginning with the facts and laws established by empirical psychology, this course aims at the construction of a metaphysic of mind.

\*11 *Logic.* 3 hrs. 1st term.

[See Course XXI, A b 3a, page 187.]

\*12 *Elements of Philosophy.* 3 hrs. 2d term.

[See Course XXI, A b 3b, page 188.]

13 *Philosophical Systems.* 2 hrs.

A study of the principal modern philosophical systems, with especial attention to the problems and conceptions relating to knowledge and to the theory of reality, and to the resulting philosophical schools and tendencies.

Professor JUDD :—

\*14 *Experimental Psychology (Laboratory Course).* 3 hrs.

[See Course XXI, B 13, page 189.]

Professor JUDD, Assistant Professor ANGIER, and Dr. CAMERON :—

15 *Psychological Theory and Methods.* 4 hrs.

Lectures on the development of psychological problems and methods, reports by members of the class on current discussions, and laboratory exercises.

\*16 *Psychology.* 3 hrs.

[See Course XXI, A b 5, page 188.]

Assistant Professor ANGIER :—

[17] *Readings in German Psychology and Philosophy.* 1 hr.

Reading of a number of German works with a view to giving the students an acquaintance with current psychological and philosophical discussions in Germany, and at the same time familiarizing them with technical German terminology. Alternates with course 27.

Omitted in 1908-09.]

\*18 *Æsthetics.* 2 hrs.

[See Course XXI, 7, page 188.]

\*19 *Physiological Psychology.* 3 hrs.

[See Course XXI, B 15, page 189.]

Assistant Professor HOCKING :—

20 *Ethical Seminary.* 2 hrs.

A critical study of fundamental ethical concepts. Students choose subjects for independent investigation and report their results before the seminary and in theses.

21 *Philosophy of the State.* 2 hrs.

A course of lectures on the foundations of society and the state; the philosophy of property and rights, of laws, crimes, and punishments, of democratic ideas. Readings in Aristotle, Macchiavelli, Montesquieu, Rousseau, etc.

22 *Philosophy of Religion.* 2 hrs.

Fundamental religious issues defined; the religious consciousness studied from the points of view of psychology, history, and metaphysics. Readings in original documents of religion and in philosophical works.

23 *Ethics.* 3 hrs.

Evolution of the ethical consciousness; the general theory of values; the principles of duty and their most general applications; relations of ethics to economics, law, etc., and to religion; bearing of biology on certain fundamental ethical problems.

Professor HOPKINS:—

[24 *Lectures on Comparative Religion.* 1 hr

These lectures are in two parts. The first part takes up the study of religion from the comparative point of view. The second part consists of lectures on special religions. Open to all graduate students and members of the Divinity School.

Omitted in 1908-09.]

Dr. CAMERON:—

25 *Psychological Readings.* 2 hrs.

Critical discussion of Stout's *Analytic Psychology*, Wundt's *Outlines of Psychology*, and James's *Principles of Psychology*.

\*26 *Educational Psychology.* 2 hrs.

[See Course XXI, B 19, page 189.]

27 *Readings in French Psychology and Philosophy.* 1 hr.

A course in French psychology and philosophy similar to course 17 in German psychology and philosophy.

Professor VERNON:—

28 *Christianity and Current Thought.* 2 hrs. 2d term.

A critical examination of the works of some of the more conspicuous religious writers of the time, who are not in accord with Christianity, such as Nietzsche, Maeterlinck, Huxley, Haeckel, Frederic Harrison, and Bernard Shaw.

## YALE-COLUMBIA COURSES IN PREPARATION FOR FOREIGN SERVICE

The system of COURSES FOR FOREIGN SERVICE inaugurated by Yale University and Columbia University is designed to prepare students for practical work in foreign countries, either in the service of the United States Government, or in business enterprises, or in missionary or scientific lines. The course of study includes seven divisions: (1) Languages, (2) Geography, (3) Ethnography, (4) History, (5) Religions, (6) Economics, (7) Law.

Students registering for this work are expected to have completed successfully at least two years of undergraduate work. If this preliminary work does not include six hours of college French or German and the regular college courses in the general principles of economics, in American history, and in European history of the nineteenth century, the student must either pass special examinations on these subjects before admission or pursue them subsequently in addition to the courses otherwise required for the certificate.

A considerable number of the individual courses (see detailed list below) may be taken by undergraduates and counted both toward the Bachelor's degree and toward the Yale-Columbia certificate. The successful completion of the courses offered, which (as a whole and by itself) will normally occupy three years in the case of candidates for the consular service, and two years in the case of candidates for other foreign service in special fields, will entitle the student, on recommendation of the joint committee in charge of the course of study, to an appropriate certificate, signed by the Presidents of Yale University and Columbia University. The fee for registration for the certificate is five dollars.

A special shelf has been reserved in the University Library, where the student will find printed information

regarding consular and commercial service in foreign countries.

Students who contemplate working for the Yale-Columbia certificate should consult Professor Emery or Professor Phillips, and should apply to the latter for the separate pamphlet containing a full list of courses and other detailed information, including the provisions of the new law regarding consular positions and the rules for promotion.

The full list of courses open to Yale undergraduates under this head is as follows:

French A 1 (*Elementary French*), A 3, A 7, or A 9 (*Second-Year French*), B 11a (*French Masterpieces*), C 21 (*Practice in Writing and Speaking French*).

Italian A 1 (*Elementary Italian*).

Spanish A 1 (*Elementary Spanish*), B 3 (*Composition in Spanish*) B 5 (*Spanish Prose of the Nineteenth Century*).

German A 1 (*Elementary German*), A 3, A 7, or A 9 (*Second-Year German*), B 11b (*Prose of Modern Historians and Critics*), B 15 (*German Composition and Conversation*).

Scandinavian 1 (*Norwegian and Danish*), 3 (*Swedish*).

Russian 1 (*Elementary Russian*).

Japanese 1 (*Elementary Japanese*), 3 (*Modern Practical Japanese*).

Geological Sciences A 1 (*Physical and Commercial Geography*), B 11 (*Geography of North America*), B 13 (*Geography of South America*), B 15 (*Geography of Asia*), C 33 (*Geographic Controls in History*).

History B 11 (*Medieval Asia and the Mohammedan Conquest*), B 21 (*Modern European Governments*), B 28 (*History of South America, chiefly in the Nineteenth Century*), B 29 (*Modern Asiatic History*), B 31 (*Japanese History*), C 37 (*Latin America*), C 45 (*European Colonies in Asia and Africa*), C 47 (*Chinese Culture and Institutions*), C 49 (*History of Art, Thought, and Customs in Japan*).

Anthropology B 1 (*Anthropology*), B 3 (*Transportation Systems*), B 5 (*Colonization*), C 13 (*Natural History of Commerce*), C 15 (*Ethnology*).

Economics and Law B 13 (*Economic Organization*), C 19 (*Commerce and Commercial Policy in the Nineteenth Century*), C 21 (*Economic History of the United States, 1760-1860*), C 23 (*Economic History of the United States, 1860-1900*), C 25 (*Industrial History of the United States*), 43 (*Elementary Statistics*), 45 (*Trade Statistics*), 51 (*Elementary Law*), 55 (*International Law*).

# SCHOOL OF THE FINE ARTS

## OFFICERS OF INSTRUCTION

### FACULTY

ARTHUR TWINING HADLEY, LL.D., PRESIDENT

JOHN FERGUSON WEIR, M.A., N.A., *Director, and William Leffingwell Professor of Painting and Design.*

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JOHN HENRY NIEMEYER, M.A., A.N.A., *Street Professor of Drawing, Emeritus.*

EDWIN CASSIUS TAYLOR, *Instructor in Drawing*

RICHARD HENRY DANA, JR., B.A., B.S., *Instructor in Architecture*

GEORGE HENRY LANGZETTEL, B.F.A., *Secretary, and Instructor in Drawing*

GEORGE ALBERT THOMPSON, B.F.A., *Instructor in Painting*

LEE OSCAR LAWRIE, *Instructor in Modeling*

JOHN IRELAND HOWE DOWNES, B.F.A., *Librarian*

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### TROWBRIDGE LECTURERS

CHARLES HENRY CAFFIN, B.A., Oxon.

KENYON COX, N.A.

WILLIAM HENRY GOODYEAR, M.A.

ALFRED DWIGHT FOSTER HAMLIN, M.A., A.T.A.

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### COURSE OF STUDY

This Department aims to provide thorough technical instruction in the Arts of Design, viz: Drawing, Painting, Sculpture, and Architecture; and to afford a knowledge of such branches of learning as relate to the Philosophy, History, and Criticism of Art. As a professional School and Department of the University it combines with the technical practice of the studios in drawing, painting, modeling, and architectural design, courses of lectures on related subjects and general courses of lectures in the Fine Arts.

### THE TECHNICAL COURSE

The technical instruction is based on methods well adapted to discipline the faculties and ground the pupil in the elements and fundamental principles constituting a grammar of Art, as a foundation for all forms of special application. This instruction is arranged as follows:

IN DRAWING, the work is distributed over a three years' course. During the first year the practice of the studio is confined to drawing from the "Antique," from plaster casts; during the second year, to drawing from casts and the portrait-life; and during the third year, to drawing from the nude-life model. The classes under the supervision of the Instructor in this department are the antique, portrait, nude-model, and sketching classes. Students showing the requisite proficiency in any class will be advanced to the work of the second or third year according to individual ability. Instruction in this department precedes or accompanies all special courses in the various branches of Art; no pupil is allowed to enter any of the advanced classes without this necessary qualification in that degree of proficiency deemed essential as a preliminary ground for such studies. Lectures on the principles of decoration, as applied in the various branches of Decorative Art, are included.

IN PAINTING, the work is divided into elementary and advanced courses of study. The first studies are devoted to the acquisition of a knowledge of the elements of technical practice, by painting from still-life. When the pupil has acquired some knowledge of the means in representing objects in color, as to their values and visual relations, the remainder of the course is given to studies of the living model, and composition. The course in painting implies, on the part of the pupil, a requisite knowledge of drawing, and drawing from the living model is continued throughout the course in connection with the work in color. The practice of the studio is supplemented by illustrated lectures on Line, Chiaroscuro, Color, Composition, and such other special topics relating to the principles and means of Art as are comprehended in its theory and practice.

IN SCULPTURE, the technical course includes drawing as a requisite, and modeling from fragments of Greek sculptures, including the extremities of the figure and the antique portrait-bust, together with the whole-length statuette for proportional measurements, or standards of form. Advanced students model from the portrait-life and the whole-length nude figure. The studio practice in modeling is supplemented with a course in Anatomy, including drawings made from the bones of the skeleton, and from the muscular system. Other lecture courses are added to the above.

**IN ARCHITECTURE.** Until the organization of a Department of Architecture shall have been completed, provisional instruction is now given in this art, intended chiefly as an elective for undergraduates and for those who wish some technical preparation for entering an architect's office. The course consists in the study of representative examples of styles and orders in their architectural and historic developments, with technical practice relating to the means and methods adapted for the conventional rendering of architectural design. These technical studies are supplemented by readings in the history of architecture, on which an examination is held for those taking the course as an elective. What is now provided may be considered as a course preparatory to a course in architecture.

The course in architecture includes a general and comprehensive view of the historic development of the various architectures, and a comparative analysis of the same with respect to their principles of construction and decoration.

**IN ANATOMY,** instruction is given in the form of lectures, and by drawings made from specimens and casts. The course comprises the study of such portions of the human body as manifestly affect the external forms, the aim being to familiarize the pupil with the characteristics of those parts, independently of their combined action in modifying the external forms. Drawings of these parts are made by the pupils, in connection with the subjects discussed by the lecturer. Advanced studies include the whole structure of the human form in its plastic anatomy and mechanism. The skeleton and muscular system are viewed as a whole, and the modification of the external forms studied in action and repose. The subjects of proportion, equipoise and motion, and expression, are studied, and original drawings required in illustration, made from life, or from Greek sculptures, by reducing the same to their anatomical structure by the imagined removal of the integument.

**IN PERSPECTIVE,** the instruction is likewise given in the form of lectures, illustrated by examples drawn on the blackboard, explaining the principles under discussion. The lectures are supplemented by practical exercises, the student being required to work out examples in the interim between the lectures. Objects are treated with reference to their true dimensions, as preliminary to their correct representation on a flat surface, as seen in perspective, at various distances, and from different points of view, including the study of shadows and reflections, and the application of the general principles of perspective to interior and exterior views. The pupil is required to work out problems in illustration of the principles involved in linear perspective in its application to the various branches of art.



IN COMPOSITION, instruction is given in the form of illustrated lectures and the technical criticism of original studies submitted by the students of the class, with reference to the arrangement of line, chiaroscuro, and color, and the disposition of groups and masses in composition.

ELECTIVE COURSES are provided for the Senior and Junior classes of the Academical Department, as set forth elsewhere in the University Catalogue; including courses in Drawing, Painting, Sculpture, and Architecture. These courses are arranged for those desiring a general knowledge of the subjects as well as for those having a professional aim to be followed after their graduation.

#### **COURSE IN THE HISTORY AND CRITICISM OF ART**

The instruction in this department includes courses of lectures by the various Instructors of the School, and other invited Lecturers, arranged to include professional students in the regular course, students from other Departments of the University, and the general public.

A course of technical lectures on the Principles and Means of Art is provided, fully illustrated, embracing the subjects of Line, Chiaroscuro, Color, Composition, and Expression, discussing the technical methods of the Painter, the Sculptor, and the Architect, including an historical account of the technical development of these arts.

THE TROWBRIDGE LECTURE COURSE provides public lectures on the Fine Arts by invited lecturers outside of the Faculty of the School, usually by representative painters, sculptors, architects and others.

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The regular prescribed course of study, for professional students, covers a period of three years, but pupils are encouraged to remain in the School and pursue advanced studies after the expiration of the prescribed term. The fees are at the rate of thirty dollars for a term of three months, with an annual fee of ten dollars for the use of the University Library and the appliances of the class-rooms. No pupil is received for less than one term. The tuition fee for a fourth year's attendance is one-half the usual rate; pupils remaining for a longer period are classed as "honorary students"; as such they are exempt from the pay-

ment of a tuition fee, but are charged an annual fee of fifteen dollars. The School is open to both sexes; no pupil is received under fifteen years of age. All applications for admission should be made through the Director. The School opens on the last Thursday in September, and the closing exercises are held on the first of June. At the end of the School year an exhibition of the work of the various classes of pupils is held, continuing open through the summer months.

Members of all Departments of the University may enter the Art School, and enjoy its privileges, as "Special Students," on the payment, in advance, of an annual fee of twenty-five dollars.

CERTIFICATES are awarded to pupils remaining in the School through the regular course of three years; and the Degree of BACHELOR OF FINE ARTS is conferred by the University upon those students who have fulfilled the requirements of a prescribed course of advanced studies in the several departments of instruction, and have submitted an approved original composition in painting, sculpture, or architecture, and a satisfactory thesis on some topic relating to the Fine Arts. Students from other Art Schools, who have passed through the requisite elementary course in Art, may enter this advanced course, ending in the conferring of the above degree, on passing the requisite examinations.

The WILLIAM WIRT WINCHESTER FELLOWSHIP, for study abroad, supported by the income derived from a fund of twenty thousand dollars, will be competed for every two years, provided a preliminary examination of the work of candidates shall warrant the holding of a competition at the regular time. Competing students must have been pupils of the Yale School of Fine Arts, or of some other Art School of equal standing, for at least two years before entering this competition, which will extend through one year's work in the several departments of instruction. From candidates for this competition, not more than four

will be chosen for a final competition, for which a specified subject in composition will be required, in addition to the regular class-work for the year. The award will be made at the Anniversary of the School, the jury being composed of three well-known artists chosen by the Faculty. The successful competitor may hold this Fellowship for a two years' residence abroad, subject to certain specified requirements. The right is reserved to withhold the award should the work of the competing students fall below the required standard of merit.

The ALICE KIMBALL ENGLISH PRIZES, the income from a foundation of three thousand dollars, are awarded annually to students taking the regular courses of study in the School, under such conditions as the Faculty may prescribe.

The ETHEL CHILDE WALKER PRIZE, the income from a foundation of two hundred dollars, is also awarded annually, under certain restrictions.

The ALICE KIMBALL ENGLISH SCHOLARSHIP will be awarded to pupils who have been in attendance not less than one year.

The JOHN FERGUSON WEIR SCHOLARSHIP, founded by Mr. and Mrs. Carl Stoeckel, will hereafter be awarded to pupils who have been in the School not less than two years.

#### COLLECTIONS

The ART LIBRARY, containing a collection of technical handbooks, current art periodicals, and portfolios of etchings and engravings and other works of art, is open, during specified hours, for the use of students. The pupils of the school are entitled to the use of the University Library, and to such other privileges, under the usual restrictions, as are granted to students in the other Departments.

The COLLECTIONS embrace the JARVES GALLERY OF ITALIAN ART, numbering one hundred and twenty-two paintings dating from the eleventh to the seventeenth cen-

turies; the TRUMBULL GALLERY of historical portraits and other works, numbering fifty-four pictures; the ALDEN COLLECTION of Belgian wood-carvings, of the sixteenth century, comprising about one hundred and twenty feet of wainscoting and three confessionals, from a chapel in Ghent; a collection of contemporaneous art, numbering about fifty paintings; a small collection of original sketches by old masters; a collection of about one hundred and fifty casts and marbles, representative of the various periods of Greek and Renaissance Art; a valuable collection of Chinese porcelains and bronzes, loaned by Professor Frederick Wells Williams; and a collection of Braun autotypes, and Arundel prints, numbering about four hundred.

The Collections of the School are open free to the public from October 1 to July 1 on week days from 1 to 5 P. M.; and on Sundays from November 1 to May 1, from 1.30 to 4.30 P. M. During the summer vacation the galleries are open from 9.00 A. M. to 5.00 P. M., when a fee of twenty-five cents is charged. This fee is also charged when special loan exhibitions are organized, in order to meet incidental expenses.

# DEPARTMENT OF MUSIC

## FACULTY

ARTHUR TWINING HADLEY, LL.D., PRESIDENT

HORATIO WILLIAM PARKER, M.A., MUS.D., *Dean, and Battell Professor of the Theory of Music*

---

SAMUEL SIMONS SANFORD, M.A., *Professor of Applied Music*

HARRY BENJAMIN JEPSON, M.A., MUS.B., *Professor of Applied Music and University Organist*

ISIDOR TROOSTWYK, *Assistant Professor of Applied Music and Instructor in Violin-Playing*

HENRY STANLEY KNIGHT, *Assistant Professor of Applied Music and Instructor in Pianoforte-Playing*

DAVID STANLEY SMITH, B.A., MUS.B., *Instructor in the Theory of Music and Secretary*

WILLIAM EDWIN HAESCHE, MUS.B., *Instructor in Instrumentation*

CHARLES RABOLD, *Instructor in Singing*

LEO SCHULZ, *Instructor in Violoncello-Playing*

LEWIS WILLIAMS, *Instructor in Pianoforte-Playing*

SETH DANIELS BINGHAM, JR., B.A., *Assistant in Organ-Playing*

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KENNETH MCKENZIE, PH.D. (*Assistant Professor of Italian in Yale College*), *Instructor in Italian*

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CAROLYN QUENTIN, *Private Secretary to the Dean of the Department of Music*

## AIMS AND REQUIREMENTS

The Department of Music aims to provide adequate instruction for those who intend to become musicians by profession, either as teachers or as composers, and to afford a course of study for such as intend to devote themselves to musical criticism and the literature of music.

In all the courses, except that in singing, a knowledge of piano-playing is required, though in a less degree if the student plays well some other musical instrument.

The work in the Department is divided into theoretical and practical courses of study. The Department is open

to undergraduates and graduates, also to special students. Admission is granted without distinction of sex. No student under 16 years of age will be admitted. The theoretical studies consist of the courses mentioned below from 1 to 7 inclusive. The practical courses consist of instruction in Piano-, Organ-, Violin- and Violoncello-playing, in Singing and in the playing of Chamber music (Ensemble-playing). No student will be admitted to any practical course except that in Singing and Violoncello-playing, unless he shall already have been admitted to one or more of the theoretical courses.

All applicants for admission to the Department other than Academical undergraduates, or members of the Graduate School, will be required to pass an examination in "The Rudiments of Music," by W. H. Cummings, published by Novello, Ewer & Co., of New York. Candidates will not be examined on Chapters I, III, VIII or IX.

The examination will be held on the Wednesday before College opens.

#### THEORY OF MUSIC

The theoretical courses are subdivided into elementary and advanced. Courses 1, 2, and 3 are considered elementary. At the close of the academic year, students who have completed course 2 may become candidates for a CERTIFICATE OF PROFICIENCY IN THE THEORY OF MUSIC, which will be issued on the completion of Course 4, after passing an examination in four-part harmony and counterpoint, in the history of music, and in the structure of song and sonata forms. An unprepared analysis of classical works will be required in addition. Academic students on the completion of the same course, and passing the same examination with distinction, will receive one-year honors in Music.

The advanced courses are numbered 4, 5, 6, and 7. They are open only to students who are able to pass the examination required preliminary to becoming a candidate for the Certificate of Proficiency in Theory mentioned above.

Members of these classes at the end of two years' work, or its equivalent, may become candidates for the degree of **BACHELOR OF MUSIC**. Candidates for this degree must give their names to the Professor of the Theory of Music at the beginning of the college year. The candidate will be required to pass an examination before a Board of Examiners, consisting of the Faculty of the Department of Music. Satisfactory evidence of proficiency in the theory of music and in any two of the following languages (one of which must be a modern language), Greek, Latin, French, German, Italian, shall be given to the Professor of the Theory of Music prior to the examination. The equivalent of two years' work is required in modern languages. In the case of Greek and Latin the requirements for entrance into Yale College must be met. (See pages 90-91.) An original composition in one of the forms to be designated by him must also be submitted. The examination will be in advanced Counterpoint, Canon, Fugue, the higher forms of Musical Composition, and impromptu Orchestration. Academic undergraduates, on passing this examination with distinction, will receive two-year honors in Music. The degree of Bachelor of Music will not be conferred excepting for at least two years' work done after the student is entitled to the Certificate of Proficiency in Theory, one of which must be spent in residence.

The fees for instruction are from fifty to two hundred dollars per year. The fee for the theoretical courses only is fifty dollars per year. These fees may be remitted in whole or in part when the student needs the relief and shows natural talent in such degree as to warrant it, in the opinion of the Faculty. The fee for a Certificate of Proficiency in the Theory of Music is five dollars. The fee for a degree is ten dollars.

Mr. SMITH :—

1 *Harmony.*

2 hrs.

The study of chords, their construction, relations, and progressions. This course covers the following subjects: Intervals, triads, seventh chords, modulations, chromatically altered chords, suspension, organ point, passing and changing notes. Figured bass is used only as a means of designating chords. Attention is turned at once to the harmonizing of melodies. The original principles from which rules are derived are discussed and students are encouraged to exercise and cultivate their own judgment in the application of these principles. Particular attention is given to the natural melodic and harmonic tendencies of tones and intervals. The subject of modulation is treated with special care and at length. Exercises are corrected in the class-room with explanations and illustrations. G. W. Chadwick's *Harmony* is used as text-book.

2 *Counterpoint.*

2 hrs.

A thorough knowledge of Harmony is required of students in this course. The work is the harmonizing and supplying melodious additional voices to choral and other melodies used as *Canti Firmi*. Examples of the different orders of Counterpoint in two, three, and four voices are required; also double counterpoint, and more or less free imitative writing. Students in this course are encouraged to try the simpler forms of free composition. Spalding's *Tonal Counterpoint* is used as a text-book.

Professor PARKER :—

3 *The History of Music.*

1 hr.

Lectures are given on the development of music from its earliest stages; history of Church Music from the time of Gregory; history of Opera and Oratorio; biographical sketches of famous composers, with description and analysis of their principal works; history of purely instrumental music, showing the growth and development of musical forms up to their culmination in Beethoven. Practical illustrations of the lectures on musical forms are given in the class-room. *The Evolution of the Art of Music*, by Sir C. Hubert H. Parry, is used as a text-book.

4 *Strict Composition.*

2 hrs.

The more severe kinds of composition form the basis of work in this course: Harmony in Five and more parts; Three-fold and Fourfold Counterpoint; Four- and Three-part Fugues



for voices or for instruments; Canons of various kinds, with or without accompaniment of free voices; Free treatment of different kinds of thematic material. This course is preparatory to course 6. No text-book is used.

Mr. HAESCHE :—

5 *Instrumentation.*

2 hrs.

This course is open only to students who have done the work of Courses 1 and 2, and it is strongly recommended that Course 4 also should precede it. Lectures are given on the nature, compass, tone-color, and other characteristics of all the instruments of the modern orchestra, with illustrations of their use by great composers. Exercises in the practical orchestration of short pieces from the works of classic and modern composers, in analyzing, reading, and playing from orchestral scores, beginning with Haydn and Mozart Symphonies, and embracing modern works of various kinds. Prout's *Instrumentation* and Berlioz's *Orchestration* are used as text-books. (See also under the New Haven Symphony Orchestra, on p. 411.)

Professor PARKER :—

6 *Free Composition.*

2 hrs.

This course is open only to students who have done the work of Courses 1, 2, 4, and 5, and have shown unmistakable talent for original composition. Several of the smaller forms of free instrumental and vocal music are composed by the students, and studies are made for larger compositions, which are finished in case the thematic material offered is of sufficient merit. At the close of the year the student is required to produce an extended work, probably in sonata form. No text-book is used.

7 *Advanced Orchestration and Conducting.*

1 hr.

Students in this course must have done the work of Course 5 and be able to write fluently and correctly for all orchestral instruments. Ancient and modern orchestral scores, of which a large number are available, are studied in detail. Orchestration by the students of original or other compositions is examined and criticized. Explanations are given of the principles by which conductors should be guided in the selection and performance of orchestral or choral works. In case the talent of the student warrants it, opportunity is furnished for practice in actual conducting. No text-book is used, but students are required to buy a number of orchestral scores for study.

**PRACTICAL MUSIC**

The courses in practical music consist of instruction in playing the Pianoforte, the Organ, the Violin, and the Violoncello, in Singing and in playing Chamber music.

No student is admitted to a course in practical music, except in singing and violoncello-playing, who has not been admitted to one of the theoretical courses.

Assistant Professor KNIGHT and Mr. WILLIAMS :—

*Piano.*

One exercise weekly.

Candidates for admission to courses in piano-playing other than graduate or undergraduate students in the University are required to pass an examination which will include, (1) knowledge of and ability to play all major and minor scales ; (2) at least two of Bach's two-part inventions ; (3) a sonata by Haydn or Mozart, and (4) a modern pianoforte piece which may be selected by the applicant. Some proficiency in sight-reading is required.

Professor JEPSON and Mr. BINGHAM :—

*Organ.*

One exercise weekly.

No student is admitted to the courses in playing the organ until he has acquired a satisfactory knowledge of pianoforte technique. The work includes careful study of organ technique, and of works by representative classic and modern composers in Sonata form and in Polyphonic and Free styles, graded according to the needs of the individual student. Especial attention is given to the pitch, quality, and possible combinations of the various registers, and to transposition and playing from vocal-score. The mechanism of the instrument is explained and studied in detail.

Assistant Professor TROOSTWYK :—

*Violin.*

One exercise weekly.

Students in violin-playing are received in all stages of proficiency. Beginners are limited to members of undergraduate classes in the University. Others are required to be able to play : (1) the major and minor scales ; (2) a study by Kreutzer ; (3) concerto No. 23 by Viotti or some composition of equal difficulty.

Mr. SCHULZ :—

*Violoncello.*

One exercise weekly.

Students in violoncello-playing will be received in all stages of proficiency, but beginners must be members of undergraduate classes in the University.

Mr. RABOLD :—

*Singing.*

One exercise weekly.

Students of singing are required to show that they possess a good or promising voice and an accurate ear. Apart from this they are received in all degrees of proficiency. Especial attention is given to a proper method of breathing, and it is desired to develop the natural voice of the individual rather than to make it conform to any conventional pattern. The work consists at first of sustained tones, scales, and arpeggios. Classic and modern songs and arias will be used as they are needed. In connection with this course students are given an opportunity for studying elementary Italian under Professor McKenzie. The fee for a course of twenty lessons in this subject is fifteen dollars.

Assistant Professor TROOSTWYK :—

*Chamber Music.*

2 hrs.

Instruction is given in concerted playing of chamber music, using representative trios, string quartets, and sonatas by classic and modern composers as the material for study. Admission to this course is granted only to those students of violin, violoncello, and piano who have attained proficiency in the use of their respective instruments.

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DIPLOMAS are awarded to those students of practical music who, having successfully completed a three-years' course of instrumental study, are qualified to act as teachers or to appear as soloists.

Three rooms in Woolsey Hall have been furnished with pianos, and may be used as practice-rooms by students in the Department of Music. The fee for one hour's daily use of such a room during term-time is fifteen dollars for the college year, or twenty-five dollars for two hours daily.

Two organs in College Street Hall are available for practice by students of organ-playing. The fee for one

hour's daily use of an organ during term-time is eighteen dollars for the college year.

The fees for instruction in instrumental music are as follows :

For Piano (for University students, graduate or undergraduate), .	\$ 75.00 for the college year.			
For Piano (for other persons), .	100.00	"	"	"
For Organ (for University students, graduate or undergraduate), .	50.00	"	"	"
For Organ (for other persons), .	75.00	"	"	"
For Violin (for University students, graduate or undergraduate), .	100.00	"	"	"
For Violin (for other persons), .	150.00	"	"	"
For Violoncello, .	100.00	"	"	"
For Singing (for University students, graduate or undergraduate), .	75.00	"	"	"
For Singing (for other persons), .	100.00	"	"	"
For Ensemble-playing (for persons not otherwise connected with the De- partment of Music), .	25.00	"	"	"

These fees are exclusive of the fee for instruction in the theoretical courses, which is fifty dollars for the college year.

Fees in the Department of Music are payable as follows: One-half the amount of all charges for the college year on or before October 15 ; one-half of the balance on or before January 15, and the remainder on or before April 15.

The administration offices of the Department, the Departmental Library, and class-rooms in the theory of music, are located at 126 College street. Here are also a few dormitory rooms available for students of any Department of the University.

#### SCHOLARSHIPS AND PRIZES

The LOCKWOOD SCHOLARSHIPS, founded by the bequest of five thousand dollars from Miss Julia A. Lockwood, of Norwalk, Connecticut, in 1897, are offered annually to two students in the Department who shall pass the best exami-

nations in the theory and practice of instrumental music (organ or pianoforte), and in the theory and practice of vocal music, respectively. The Lockwood scholarship in 1908 will be awarded to students of piano-playing and singing.

Through the liberality of Mr. Morris Steinert, of New Haven, an annual prize of one hundred dollars is offered for the best original composition in one of the larger musical forms by a student in the theoretical courses.

A prize of fifty dollars will be given to the student of organ-playing whose work is most satisfactory. The decision will be given at a competitive examination which will be held near the close of the college year.

Two prizes of twenty dollars and ten dollars, respectively, will be awarded to the two students of piano-playing who pass the best entrance examinations in the autumn.

### **ALLIED MUSICAL SOCIETIES**

The NEW HAVEN SYMPHONY ORCHESTRA, under the direction of the Professor of the Theory of Music, gives a series of concerts during the winter, to which students in any Department of the University are admitted for a small fee. This organization is a complete and well-equipped orchestra of about sixty players, and is a valuable adjunct to the Department of Music.

Students of orchestration are afforded an opportunity to hear their work actually performed, and any composition which is original and of sufficient merit may be performed publicly.

The same orchestra affords an opportunity to acquire orchestral routine to those students of the violin who are able to pass the examination for admission to the orchestra.

The most advanced students of piano-playing as well as violin-playing are allowed to rehearse with the orchestra, and to perform publicly, if fitted to do so in the judgment of the Faculty of the Department.

Informal recitals by students will be given in College Street Hall from time to time after January 1, and at the end of the college year a concert by students in the Department with the orchestra will be given in Woolsey Hall. At this concert the award of the Lockwood scholarships will be announced and those students whose work during the year has been most satisfactory will appear publicly as composers, conductors, or performers.

The NEW HAVEN ORATORIO SOCIETY, incorporated in October, 1903, "To promote the cultivation of Choral Singing in coöperation with the Department of Music in Yale University," is a large chorus of mixed voices which gives concerts from time to time with the New Haven Symphony Orchestra. Students are admitted to these concerts for a small fee, and are encouraged to take the voice trials prescribed for admission to the chorus that they may sing with the Society if fitted to do so.

### DEPARTMENTAL LIBRARY

A LIBRARY has been formed for the use of students in the Department, consisting chiefly of orchestral scores, trios, quartets, sextets, etc., and a large number of four-hand piano arrangements of works for orchestra and chamber music. Up to the present time about 500 works have been acquired and additions are constantly being made. By the use of the library students can familiarize themselves with compositions which are about to be performed at the Orchestra, Chamber-music, and Oratorio concerts, preparatory to attending the concerts. They can in this manner study classic and modern works which are otherwise not readily accessible.

### STEINERT COLLECTION

Of special interest to all students of music is the M. Steinert collection of musical instruments and manuscripts. It contains a large number of ancient keyed and stringed instruments in a state of excellent preservation, and shows the development of these instruments

during a period extending over several centuries. This collection, which also contains a number of ecclesiastical manuscripts, is of much historical importance. It was given to the University by Mr. Morris Steinert, of New Haven, and is kept in Memorial Hall.

The collection is open to the public on Sunday afternoons during the winter months, and is accessible at other times on inquiry at the office of the University Dining Hall.

# DEPARTMENT OF FORESTRY (YALE FOREST SCHOOL)

## OFFICERS

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### ADDITIONAL INSTRUCTORS AND ASSISTANTS

HERMAN HAUPT CHAPMAN, M.F., *Assistant Professor of Forestry*

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RALPH CHIPMAN HAWLEY, M.F., *Instructor in Forestry*

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## **EQUIPMENT OF THE SCHOOL**

### **GENERAL ENDOWMENT**

The Yale Forest School was founded in 1900 by the gift of one hundred and fifty thousand dollars from Mr. and Mrs. James W. Pinchot and their sons, Gifford and Amos R. E. Pinchot. The gift provided for the establishment of a Department in the University to be known as the Yale Forest School, for instruction and research in Forestry. The gift also provided for a Summer School of Forestry in Milford, Pike County, Pennsylvania.

The endowment of the School was increased in 1903 by an additional gift of fifty thousand dollars from Mr. and Mrs. James W. Pinchot, and Professor Gifford Pinchot.

In 1905 the National Lumber Manufacturers' Association voted to raise a fund among the lumbermen of the country to establish a Chair of Applied Forestry and Lumbering at the Forest School. The School has so far received sixty-five thousand dollars towards this chair.

### **EQUIPMENT IN NEW HAVEN**

Marsh Hall, the residence of the late Professor Othniel C. Marsh, 360 Prospect St., is used as the School building. It is equipped with lecture rooms, a library and reading room, and botanical and wood-testing laboratories.

The library contains about seven thousand books and pamphlets. It includes the important works on Forestry in English, French, and German.

In the reading room about forty periodicals, including the important lumber journals and the technical forest journals published in this country and abroad, are placed at the disposal of the students.

The botanical laboratory is equipped with simple and compound microscopes, and other apparatus and material useful in botanical instruction and research. The labora-

tory is provided with modern facilities for photographic and photo-micrographic work.

An herbarium, containing six thousand mounted sheets of native and exotic trees and shrubs and the more important forest herbs, is arranged for the use of students engaged in research. A large collection of forest tree fruits and seeds is available for students of Dendrology.

The wood-testing laboratory is equipped for research and instruction in the physical, structural, and mechanical properties of wood. The equipment includes testing machines; planers, lathes, and saws for shaping material for testing; xylometers, drying ovens, chipping machines, and a dry kiln; as well as a large amount of smaller machinery and tools useful in timber testing. The present arrangement of coöperative work with the Federal Forest Service gives students of Forest Technology exceptional facilities for research in the strength and other mechanical properties of timber.

A large collection of domestic and exotic woods is available for students' use. This collection contains boards and planks of most of the important economic species. In addition, nearly all the American species are represented by small hand specimens. Among exotic species, the Central American, West Indian, and Philippine woods are particularly well represented.

Transits, levels, plane tables, compasses, barometers, calipers, height measures, chains, tapes, and other instruments, are provided for the courses in Surveying, Forest Mensuration, Silviculture, and Forest Management.

The following departments of the University are open to Forest students: The University Library, the Yale Dining Hall, the University Gymnasium, the Yale Infirmary, and the Bureau of Appointments.

An important part of the equipment of a Forest School is a Demonstration Forest for field instruction and for demonstration of practical Forestry. The Yale Forest

School is fortunate in having the use of the extensive holdings of the New Haven Water Company for this purpose. These holdings aggregate about nine thousand acres, of which over half are already wooded. The Company is practicing forestry on its lands under the direction of Mr. Hawley of the staff of the Forest School. A portion of the forest has been under management since 1900, so that there are already very instructive illustrations of silvicultural treatment.

#### **EQUIPMENT IN MILFORD, PENNSYLVANIA**

In addition to the plant in New Haven, the School is provided with a complete equipment in the field for instruction and research. This is located at Milford, Pike Co., Penn., where the work of the Summer School is conducted. Milford lies on the west bank of the Delaware river, eight miles below Port Jervis, New York, whence it is reached by stage running regularly twice a day. Port Jervis is on the direct line of the Erie railroad.

The School is located on the estate of the late Mr. James W. Pinchot, who erected a number of buildings for the class work and gave the use of his woodland for field instruction.

**THE STONE COTTAGE.**—This building contains a lecture hall, a botanical laboratory, and a small library and reading room.

**FOREST HALL.**—This is a large stone and concrete building erected by Mr. James W. Pinchot and Mr. Gifford Pinchot for the use of the Forest School. It is located in the village of Milford, Penn., and is especially designed for lectures, which are open to the public. The building contains a spacious hall, 60 by 30 feet, capable of accommodating about 200 persons.

**JUNIOR HALL.**—This is a frame building containing a single large lecture room for the work of the Junior class in the courses in Forest Mensuration and Surveying.

**THE CLUB HOUSE.**—This building is designed as a gathering place for evening study and recreation.

**THE SCHOOL CAMP.**—A fully equipped camp is provided for those who desire to live in tents. It is situated on high dry ground, about eight hundred feet above sea level, a location which is exceedingly healthful. The tents are erected on board floors and each is furnished with a cot, table, chairs, washstand, and crockery. The students take their meals together in a large mess hall.

**TRACTS FOR FIELD WORK.**—Field work is conducted chiefly on the tracts owned by the Pinchot estate and those owned by Professor Graves. These tracts aggregate over one thousand acres and are peculiarly well adapted to the purposes of instruction in Forestry.

**EXPERIMENTAL WORK.**—Gifts of the late Mr. James W. Pinchot have enabled the School to conduct at Milford experiments in Silviculture. The work done so far comprises the establishment of a forest nursery and of experimental plantations and the laying out of permanent sample plots for repeated observation of the results of different methods of treatment.

## **THE WORK OF THE SCHOOL**

### **TERMS OF ADMISSION**

The Forest School is a graduate department requiring for admission a college training. Graduates of universities, colleges, or scientific institutions of high standing are admitted upon presentation of their diplomas, provided they have had courses in Elementary Botany, General Geology, Inorganic Chemistry, Physics, Mathematics through Trigonometry, Economics, and Modern Languages.

Undergraduates who expect to enter the Forest School after graduation are advised to take also courses in Plant Physiology, Morphology of Plants, Advanced Geology (including Mineralogy), Zoology, Meteorology, Physical Geography, Mechanical Drawing, Organic Chemistry, and Elementary Calculus.

Students who have not had courses in Morphology of Plants and Mechanical Drawing are required to take these subjects during the Junior year of the Forest School.

Candidates for advanced standing may take examinations in any subject, but in the case of Forest Management, Forest Mensuration, Silviculture, Lumbering, Dendrology, Forest Technology, and other technical subjects, they are required, in addition, to present evidence of a specified amount of work done in the field or laboratory. Information regarding the special requirements in each of the above mentioned courses may be obtained from the Director.

#### **COURSE PREPARATORY TO THE STUDY OF FORESTRY**

An undergraduate course preparatory to Forestry is given in the Sheffield Scientific School. This course comprises not only a liberal training in Economics, English, French, and German, but also the work in Mathematics, Engineering, Botany, Geology, Chemistry, and other subjects necessary as a foundation for the study of technical Forestry. The best procedure for students in the Scientific School is to take the full course preparatory to Forestry and then two years post-graduate work at the Forest School. It is, however, possible for students of high standing to anticipate a certain amount of technical work at the Forest School in addition to that prescribed in the regular undergraduate course, and to complete their post-graduate work in Forestry in one year. Such students are required to spend two summers at the Summer School in Milford, Penn., and to do extra work in their Senior undergraduate year. The first term at Milford is taken at the end of the Junior year and the second summer term immediately upon graduation from Sheffield. The extra work required of such students in the Senior undergraduate year comprises the fall and winter lectures in Silviculture, and the courses in State Forest Law and Forest Economics. Only students who have completed

their Junior year at the Scientific School without conditions are permitted to undertake this course.

#### REGISTRATION

There are four terms in the Junior year and three terms in the Senior year. Juniors are required to register at Milford, Penn., in July at the opening of the summer term. Seniors register in New Haven in September, when the fall term for the Junior class also opens. In 1909 the summer term begins July 6 and continues ten weeks. The fall term in 1909 begins September 30.

#### FEES AND EXPENSES

The annual charge for tuition for the Junior class is one hundred and fifty dollars, including the summer term, and for the Senior class one hundred and twenty-five dollars. Juniors are required to pay the first installment of the tuition, namely thirty-five dollars, when they register in July. Bills are sent from the Treasurer's office for the other installments of the Junior tuition and for all payments of the Senior tuition.

Frequent excursions are taken to points of interest near New Haven, involving an annual expense of less than ten dollars. The last half of the Senior year is spent in the lumber woods. This necessitates traveling expenses, which vary from year to year according to the locality in which the work is conducted. Ordinarily these do not exceed sixty dollars. During the Senior spring term the students live in camp, so that living expenses are reduced to a minimum.

Required text-books cost about twenty dollars each year. Other incidentals, including surveying material, drawing instruments, field maps, etc., amount to about fifteen dollars a year.

Satisfactory board and lodgings can be obtained in New Haven at prices ranging from seven dollars per week upwards.

A charge of twenty-five dollars is made for the use and care of a tent during the regular summer term at Milford.

If two persons occupy one tent, the charge is seventeen dollars and a half for each person. Students who wish to secure the reservation of a tent must apply to the Director before June 1 and make a deposit of five dollars. Board in camp is charged at cost and varies from four dollars and seventy-five cents to five dollars per week. Students are required to make deposits on board in advance. The first installment of twenty dollars is payable at registration.

The fee for graduation is five dollars.

#### **DEGREE**

Graduates of the Forest School, who have previously received a Bachelor's degree from a collegiate institution of high standing, are granted the degree of Master of Forestry.

#### **THESES**

Students are encouraged to carry on original work and to write theses under the supervision of the professors and instructors. Special credit is given for such work, but a thesis is not required for the degree.

#### **CURRICULUM**

The regular course covers a period of two years. The work is of an advanced and technical character and is designed for college graduates who already have had a thorough collegiate training in Mathematics and Natural Science. The regular two years' course gives a training for all professional work of Forestry, including a preparation not merely for practical work in the woods, but also for the broad work of forest organization in Government and State service, for handling large tracts of forest land, for consultation work for railroads, lumbermen, water companies, and other owners, for the work of public lecturing and writing, for teaching and for scientific research. Special facilities for study are offered to men preparing for Government service in the Philippine Islands, Hawaiian Islands, or Porto Rico; and for students from foreign countries who wish to prepare themselves for the

work of organization in regions where Forestry has not yet been thoroughly established.

Excursions and field work form an important part of the instruction in Forestry. In the Junior year, the whole summer term, two and one half days a week in the fall term, and three days a week in the spring term, are devoted to practical work in the field. The Senior class devotes between four and five months of the college year to field work.

The last half of the Senior year is spent in the lumber woods, where the students are trained in the management of logging operations and milling, and are given their final training and practice in topographic surveying, preparation of forest maps, working plans on a large scale, estimating of timber, valuation of land, laying out roads and trails, running lines, projecting plans for lumber operations, etc. In 1906 the work was carried on at Waterville, N. H., on the lands of the International Paper Company. The spring term of 1907 was spent in southern Missouri on the lands owned by the Missouri Lumber and Mining Company. The class of 1908 had its final field instruction in central Alabama on the lands of the Kaul Lumber Company.

#### **OPPORTUNITIES FOR ADVANCED WORK**

The profession of Forestry has already become so far advanced that there are opportunities for men to specialize in certain branches of the subject. For instance, there is a call for specialists in research work in Silviculture, in Forest Products, Dendrology, and Lumbering.

Special opportunities are offered at Yale for advanced work in Forestry by graduates of forest schools who have already covered the elementary technical subjects and who wish to carry on work along some special line. A number of optional courses are offered, covering advanced work in Silviculture, Forest Management, Lumbering, and Forest Products.



The School offers abundant facilities for research work in all branches of Scientific Forestry. The botanical and wood-testing laboratories and the engineering equipment are placed at the disposal of students desiring to do original work. There are excellent opportunities both at New Haven and at Milford for carrying on research work in Silviculture in the field, and for studying the results of Forestry in this country and abroad from the books and records in the library.

### COURSES OF INSTRUCTION

#### JUNIOR YEAR

*Summer Term* : Surveying A ; Forest Mensuration ; Forest Botany A ; Silviculture A.

*Fall Term* : Silviculture A ; Forest Botany A and B ; Forest Physiography A ; Surveying B ; Mechanical Drawing.

*Winter Term* : Silviculture B ; Forest Botany A and C ; State Forest Law ; Forest Physiography A and B ; Surveying B ; Mechanical Drawing ; Forest Economics ; Forest Entomology.

*Spring Term* : Silviculture C and D ; Forest Botany A ; Plant Physiology ; Morphology of Plants ; Forest Physiography A and C.

#### SENIOR YEAR

*Fall Term* : Forest Technology ; Forest Management ; Practice of Forestry in the United States ; National Forests A ; Federal Forest Law ; Elementary Business Law ; Lumbering A and C.

*Winter Term* : Forest Management ; National Forests B ; Lumbering B ; Road Construction ; Forestry Abroad ; Preservation of Timber ; Mechanical Properties of Wood.

*Spring Term* : Forest Surveying and Working Plans ; Lumbering D. This term is spent in the lumber woods of the South.

### DESCRIPTION OF THE COURSES

1 *General Morphology of Plants* (required of students who have not had the subject as undergraduates).

6 hrs. in two laboratory periods, spring term.

Professor EVANS, Dr. A. H. GRAVES, and Mr. NICHOLS:—

[See Course vi, 67, page 360.]

2 *Plant Physiology*. 6 hrs. in two laboratory periods,  
spring term.

Dr. A. L. DEAN :—

Chemical composition of plants and soils ; formative and metabolic changes of carbohydrates, fats, proteids, and inor-

ganic elements of plants; absorption and transportation of water and food materials; the action of enzymes. A knowledge of the section on Physiology in the Text-Book of Botany by Strasburger, Noll, Schenck, and Schimper will be required.

3 *Forest Botany.*

- A. *Dendrology.* 1 ½ hrs. throughout the year,  
field work additional.

Professor TOUMEY and Dr. A. H. GRAVES:—

A general taxonomic and biologic study is made of the forest trees of the United States, special attention being given to the species of economic importance.

- B. *Morphology of Woody Plants.* 6 hrs. in two laboratory periods, fall term.

Dr. A. H. GRAVES:—

Special attention is given to the external morphology of the vegetative organs of woody plants, and to the structure and development of wood.

- C. *Diseases of Trees.* 6 hrs. in two periods,  
winter term.

Dr. A. H. GRAVES:—

Lectures on the destructive diseases of the timber trees of the United States, their causes, nature, and remedies, with special attention to those of fungous origin; a period also devoted to wounds and correct methods of tree pruning; laboratory study of the microscopic structure of fungi; field excursions.

4 *Forest Entomology.* 2 hrs. winter term.

Assistant Professor COE:—

A course of lectures and practical exercises on such groups of insects as are of economic importance in the management of forests and the utilization of forest products.

5 *Forest Physiography.*

Under this general head are included three closely related subjects,—physiography, lithology, and soils—a study of which is designed to supply a knowledge of the general physical conditions affecting plant growth. The fall term is devoted to physiography, the winter term to physiography and lithology, and the spring term to physiography and soils.

A. *Physiography.* 2 hrs., field work additional.

Professor GREGORY and Mr. BOWMAN:—

A study of the origin, development, and classification of land forms, including those conditions which affect insolation, water supply, formation of soils, etc. Each physiographic province of the United States is made the subject of detailed study as to the topography, drainage, climate, and soils of the region. Text-books are used in this part of the course, but the instruction is chiefly by field exercises, map study, and assigned readings of physiographic literature.

B. *Lithology.*

2 hrs. winter term.

Professor BARRELL:—

Laboratory exercises supplemented by field excursions and lectures dealing with the composition, structure, and classification of rocks. Particular attention is paid to the method of weathering and decomposition of the various rock types.

C. *Soils.* 2 hrs., field work additional, spring term.

Mr. BOWMAN:—

Laboratory and field exercises with occasional lectures on the origin, classification, and relative value of soils.

6 *Forest Economics.*

2 hrs. winter term.

Professor GRAVES and Professor BREWER:—

Part played by forests in the life of the nation; influence of forests on climate, on conservation and distribution of water, on control of soil, on topography, on public health; relation of forests and forestry to agriculture, manufacturing, and other industries; character and extent of our natural forest resources, their present condition, the effect of their destruction; and the progress of forestry in the United States.

7 *Forest Hydrography.*

4 lectures, winter term.

Mr. F. H. NEWELL, Chief Engineer, U. S. Reclamation Service.

This course of lectures, illustrated by lantern slides, considers: Flow of streams; diurnal and seasonal variations, non-periodic fluctuations; regimen of various rivers; effects of forest and cultural conditions on available flow; underground water. Particular attention is given to irrigation economics, and to the work of the Reclamation Service in the construction and administration of irrigation systems in the arid West.

- 8 *Forest Technology.* 2 hrs. lectures, 6 hrs. laboratory,  
fall term.

Professor TOUMEY :—

The histology of wood leading to the identification and classification of the economic woods of the United States and the more important exotic species ; normal and abnormal characteristics ; the appearance and material condition of wood based upon its physical constitution ; dendro-chemistry or the properties of wood based upon its chemical constitution ; factors which actually determine the use of the various economic woods in the United States.

- 9 *Preservation of Timber.* 2 hrs. winter term.

Professor TOUMEY :—

The structural, physical, and chemical properties of wood in relation to durability : the primary causes of decay : the lasting powers of various species ; the relation of moisture content to durability ; the seasoning of wood ; the preservation of wood by the application of paints, oils, etc., to the surface ; the theory and methods of impregnation ; description of preserving plants ; the history of wood preservation in the United States and its relation to the future timber supply ; fire-proofing.

- 10 *The Mechanical Properties of Wood.* 3 hrs. winter term.

Mr. TIEMANN :—

Lectures upon the strength of wood and its uses for structural and engineering purposes.

The lectures are supplemented by work in the timber-testing laboratory covering strength tests of various kinds.

11. *Silviculture.*

- A. *Silvics.* 2 hrs. summer and fall terms,  
field work additional.

Professor GRAVES, Assistant Professor CHAPMAN, and  
Mr. HAWLEY :—

Principles underlying the life history of trees, their mode of growth, the influences affecting their life and development, their life together in the forest. The lectures are supplemented by extensive field work.

- B. *Treatment of Woodlands.*

2 hrs. winter and spring terms, field work  
additional.

**Professor GRAVES and Mr. HAWLEY:—**

Principles of reproducing forests by skillful cuttings ; theoretical discussion of the different silvicultural systems of management ; practical silvicultural problems and methods in this country.

**C. *Forest Seeding and Planting.***

2 hrs. lectures, and 8 hrs. field work, spring term.

**Professor TOUMBEY:—**

The structure and form of tree seeds, their dissemination, collection, vitality, fertility, and cost ; the storage of seeds and time required for germination ; broadcast and partial seeding, the making of seed beds, and nursery work ; tree planting and the factors governing success. A large part of the work is conducted in the field.

**D. *Advanced Silviculture.* 2 hrs. spring term, field and office work additional.****Mr. HAWLEY:—**

Opportunity is afforded here for advanced and detailed work in Silviculture. Certain specific problems are assigned requiring: (a) Work in the library, and (b) Practical work and original investigation in the forest.

**E. *Research and Experiment in Silviculture.* Summer term.****Professor GRAVES:—**

This course is designed for students who wish to make a specialty of research and experiment in silvics and silviculture. The course will be given at Milford, Penn., during the summer and will be conducted by means of field work, office work, and personal conferences. It will be offered in the summer of 1910.

**12 *Surveying*****A. *Field Surveying.* 2½ days, summer term.****Assistant Professor TRACY and Mr. FARNHAM:—**

The course begins with a thorough drill in the use of the instruments and in the solution of problems likely to occur in the field. During the second part of the course a topographic survey is made of a comparatively small area. The transit and the level are the principal instruments used, and a high degree of accuracy is required. The third part of the course includes a more extended survey, made with less accuracy and more speed. Practically all methods of surveying are used in this work.

B. *Office Work.* 6 hrs. fall term, 3 hrs. winter term.

Assistant Professor TRACY and Mr. FARNHAM:—

The field notes of the surveys made at the summer camp in Milford are worked up preparatory to plotting, and all necessary computations are finished. The topographic maps are then plotted by several different methods. Additional problems in calculations of a practical nature are given throughout the course.

13 *Mechanical Drawing* (required of students who have not had the subject as undergraduates).

3 hrs. fall term.

Mr. NORTH:—

The first part of the course is preparatory to the work in mapping. It begins with a drill in the use of the drawing instruments, and includes instruction in lettering and in the use of conventional signs for topographic maps. The remainder of the course is devoted to making simple working drawings in orthographic projection.

14 *Forest Mensuration.* 2 days per week, summer term.

Assistant Professor CHAPMAN:—

Methods of determining the contents of logs and other parts of felled trees; methods of obtaining the contents of standing trees; determination of the age of trees and of stands; methods of studying the growth of trees. The use of graphical methods in research work is made in preparing volume tables and tables of growth.

15 *Forest Management.* 4 hrs. fall and winter terms.

Assistant Professor CHAPMAN:—

Economic and business principles underlying management of forest property; a review and completion of the study of Forest Mensuration; forest valuation, regulation, working plans, and administration.

16 *Forest Surveying and Working Plans.* Field work,  
spring term.

Assistant Professor CHAPMAN:—

Topographic mapping of large areas on a small scale by contours, for use in lumbering; location of old Government survey lines, corners, and witnesses; ocular methods of timber estimating on a commercial scale, accompanied by sketch maps of topography and types of timber, and complete forest descrip-

tions ; the location and projections of logging railroads, forest roads, trails, and fire lines ; silvicultural needs of the principal species ; principles of a practical working plan to secure a second crop of timber, and protection from fire ; study of growth, and prediction of future yield under management.

### 17 *Lumbering.*

Mr. BRYANT:—

Four courses in Lumbering are offered. Three of them are conducted in New Haven by lectures and recitations and are designed to give the student an understanding of the chief features of the lumber business and the principles underlying its successful conduct. The fourth course is given in the field during the four months of the spring term of the Senior year, and is conducted in the logging woods and at the mill.

#### A. *The Lumber Industry.* 3 hrs. fall term.

The object of this course is to acquaint students with the chief features of the lumber industry. The methods of logging in vogue in various sections of the United States are discussed critically. Special study is made of the lumber market quotations and the important news in lumber trade journals.

#### B. *Advanced Lumbering.* 2 hrs. fall term.

A course designed for students who desire to make a detailed study of logging and manufacturing methods and other phases of the lumber industry.

#### C. *Minor Industries.* 3 hrs. winter term.

A series of lectures dealing with the harvesting of tanbarks, the orcharding of turpentine, and the utilization of timber and lumber in the manufacture of shingles, lath, veneers, etc.

#### D. *Field Work in Lumbering.* Spring term.

This course is conducted in connection with some lumber operation in the southern part of the United States. The instruction includes a detailed study of the method of lumbering used by the company on whose tract the school camp is located.

### 18 *Roads and Trails.* 2 hrs. winter term.

Assistant Professor CHAPMAN:—

Elementary principles governing the location and construction of roads and trails for purposes of transporting supplies, and for travel.

19 *Practical Construction Work* (optional). Summer term.

This will be a practical course in such work of construction engineering as is required of a forester on a National Forest. It includes the construction of roads, trails, bridges, dams, camps, development of water supplies, etc. In connection with the course such instruction will be given as will be of use to the man who must learn to take care of himself in the woods. The course will be given in 1910 if circumstances warrant it.

20 *The Practice of Forestry in the United States.*

3 hrs. fall term.

Mr. HAWLEY :—

The course deals with forest management as applied to the forests of the United States. Practical forest management is considered in all its relations.

21 *National Forests.* A.

2 hrs. fall term.

Professor GRAVES :—

A study of the conditions and problems of the National Forests, considered individually and in groups.

*National Forests.* B. 4 hrs., conferences additional,  
winter term.

This course deals almost entirely with the actual administration of the National holdings of timber and range. Its aim is to give the point of view of the administrative officer on the ground, and the principles and methods of the more important kinds of National Forest business. Four lectures are given weekly.

22 *Forest Policy.*

6 lectures, winter term.

Professor PINCHOT :—

Origins of forest policy ; its objects and principles ; legislation and its causes before 1891 ; from 1891 to 1903 ; national organization in Forestry ; the forest and other land laws in relation to economic and industrial development ; State forest problems.

23 *Forest Administration.*

4 lectures, fall term.

Mr. PRICE :—

Principles of business administration as applied to a Government department ; the United States Forest Service, its historical development and work.



- 24 *Forest Management Abroad.* 2 hrs. winter term.

Professor GRAVES:—

Early forest ordinances in Europe ; beginnings of technical forestry ; development of the technical branches ; history of Government forest administration ; history of forest education in Europe ; the systems of Forest Administration abroad.

- 25 *State Forest Law.* 2 hrs. winter term.

Assistant Professor CHAPMAN:—

The fire laws of different States and the general principles of successful legislation for fire protection ; the development of forest policies in the principal States, and the important laws outlining forest policy and the creation and management of State forest reserves ; forest taxation, theory, and legislation.

- 26 *Federal Forest Law.* 2 hrs. fall term.

Mr. BOWERS:—

The development of the public domain with reference to the creation of a forest policy by the United States and a consideration of laws relating thereto.

- 27 *Elementary Business Law.* 2 hrs. fall term.

Mr. BOWERS:—

This course treats of contracts, damages, real estate, riparian rights, and abstracts of title.

#### SPECIAL LECTURES

During the year special lectures are given on different subjects by practical experts, to supplement the regular courses outlined in the catalogue. The principal courses are as follows:

a. Work of the Branch of Forest Products, by Mr. William L. Hall, of the United States Forest Service.

b. Government Work in Timber Preservation, by Mr. William F. Sherfese, of the United States Forest Service.

c. Methods of Collecting and Using Forest Statistics, by Mr. R. S. Kellogg, of the United States Forest Service.

d. Grazing, by Mr. A. F. Potter, of the United States Forest Service.

e. The Wholesale Lumber Trade, by Mr. Robert C. Lippincott, of Philadelphia.

f. Lumbering in the Adirondacks, by Mr. Robert W. Higbie, of New York City.

A number of other lecture courses will be given in connection with the course in Lumbering for which arrangements are not completed.

# DEPARTMENT OF THEOLOGY (YALE DIVINITY SCHOOL)

## OFFICERS

### FACULTY AND INSTRUCTORS

ARTHUR TWINING HADLEY, LL.D., PRESIDENT

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Rev. GEORGE PARK FISHER, D.D., LL.D., *Titus Street Professor of Ecclesiastical History, Emeritus*

Rev. LEWIS ORSMOND BRASTOW, D.D., *Professor of Practical Theology, Emeritus*

Rev. EDWARD LEWIS CURTIS, PH.D., D.D., *Holmes Professor of the Hebrew Language and Literature, and Acting Dean of the Faculty*

Rev. HARLAN PAGE BEACH, M.A., *Professor of the Theory and Practice of Missions*

Rev. FRANK CHAMBERLIN PORTER, PH.D., D.D., *Winkley Professor of Biblical Theology*

Rev. BENJAMIN WISNER BACON, D.D., LITT.D., LL.D., *Buckingham Professor of New Testament Criticism and Interpretation*

WILLISTON WALKER, PH.D., D.D., *Titus Street Professor of Ecclesiastical History*

† Rev. AMBROSE WHITE VERNON, D.D., *Professor of Practical Theology*

Rev. CHARLES SUMNER NASH, D.D. (*Professor of Homiletics and Pastoral Theology in Pacific Theological Seminary*), *Lecturer on Practical Theology*

WILLIAM BACON BAILEY, PH.D. (*Assistant Professor of Political Economy in Yale University*), *Instructor in Sociology*

Rev. Professor HIRAM VAN KIRK, PH.D., *Instructor in Systematic Theology.*

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CHARLES CUTLER TORREY, PH.D., D.D. (*Professor of the Semitic Languages in Yale University*), *Instructor in Semitic Languages*

CHARLES FOSTER KENT, PH.D. (*Woolsey Professor of Biblical Literature in Yale University*), *Instructor in Biblical Literature*

EDWARD MORGAN LEWIS, M.A., *Instructor in Elocution*

Rev. RAYMOND GILMORE CLAPP, M.A., *Instructor in New Testament Greek, and Director of Religious Work*

Rev. ERNEST FRANK MCGREGOR, M.A., B.D., *Instructor in Sociology*

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† Resigned.

Hon. SIMEON EBEN BALDWIN, LL.D. (*Professor of American Constitutional and Private International Law in Yale University*),  
*Instructor in Law*

RICHARD SWANN LULL, PH.D. (*Assistant Professor of Vertebrate Paleontology in Yale University*), *Instructor in Organic Evolution*

#### SPECIAL LECTURERS

Rev. HERBERT HENSLEY HENSON, D.D., Canon of Westminster.  
*Lyman Beecher Lecturer*

Rev. GEORGE ANGIER GORDON, D.D., of Boston. *Nathaniel William Taylor Lecturer*

Rev. HARRY E. PEABODY (B.D. 1891), of Hartford. *Alumni Lecturer*

#### OTHER OFFICERS

MAY B. LYON, *Private Secretary to the Faculty*

EZRA PECK MERRIAM, *Superintendent of the Divinity Buildings*

### GENERAL STATEMENT

#### RELATION OF THE DIVINITY SCHOOL TO THE UNIVERSITY

The YALE DIVINITY SCHOOL is one of the coördinate Departments of Yale University. The general advantages of the University are enjoyed by all its members. The graduates of the Divinity School who have received the degree of Bachelor of Divinity since that degree was first conferred by the University in 1867 are enrolled in the Catalogue of the Officers and Graduates of the University and take part in the election of the alumni members of the Corporation. They are also themselves eligible to membership in the Corporation.

#### CONDITIONS OF ADMISSION

The Divinity School is open, on equal terms, to students of every Christian denomination. The conditions of admission are membership in some evangelical Church, or other satisfactory evidence of Christian character, and a liberal education at some College or University, or, in exceptional cases, an equivalent preparation for theological studies. Some knowledge of the Hebrew language on the part of those entering the Junior class, and expecting to pursue that study, is desirable.

By an arrangement with the Academical Department of Yale University, it is possible for Seniors in that Department to elect as part of their work for the B.A. degree the prescribed courses of the Junior year in the Divinity School, thereby preparing themselves to enter the Middle class on graduation and thus to complete their Theological course in two years. Such students, however, are expected to maintain a high grade of scholarship.

The following rules determine the admission of students to candidacy for the degree of Bachelor of Divinity :

1. Bachelors of Arts whose course of study has included Greek are admitted without examination as candidates for the degree of B.D.

2. Bachelors of Arts whose course of study has not included Greek, and graduates holding other degrees—such as B.S., B.L., and Ph.B.—are required to pass the examination in Greek, referred to below (paragraph 2), before being admitted as candidates for the degree of B.D.

3. Applicants for admission who hold no collegiate degree are required to show by certificate and by examination† that they have received the substantial equivalent of a college training. Full statements from their instructors, showing the subjects and the range of their previous studies, will be taken into account by the Faculty in determining their fitness for admission. They may be admitted to membership in the institution without becoming at the outset candidates for the degree of B.D.

4. Such non-graduates as show superior scholarship in the actual work of the course may, at any time, by vote of the Faculty, become candidates for the degree of B.D.

† Such applicants will be examined in the following subjects :—

(1) *Latin*. Sight reading of easy prose, and the text of at least three standard authors. Three years' study of Latin would ordinarily be necessary to the passing of this examination.

(2) *Greek*. The same general requirements as are made in Latin. Sight reading of the New Testament.

(3) *English Literature*. The examination will require a good degree of familiarity with the chief English and American writers in prose and poetry. The more exact range of the examination, in any particular case, may be agreed upon between the applicant and the Faculty.

(4) *History*. A careful study of one or more historical periods.

(5) *Philosophy*. A fair knowledge of logic, psychology, ethics, and the history of philosophy.

(6) German, French, political or social science may be offered in addition to, or, in special cases, in lieu of one or more of the above subjects, except Greek and Philosophy.

#### ADMISSION TO ADVANCED STANDING

Students from other theological schools whose course of study, in the judgment of the Faculty, is substantially equivalent to that of this institution, will be received *ad eundem* upon presenting regular certificates of dismissal and recommendation ; but none will be received as candidates for the degree of B.D. after the opening of the first term of the Senior year. Applicants whose previous training has been received in Colleges which provide a mixed course of literary and biblical (or theological) studies, will not be received to a standing beyond that of Middle year, except upon condition of passing a satisfactory examination in the required studies of that year, or their equivalent.

#### GRADUATE STUDY

Those who have completed a course of three years in this or some other Theological School can be admitted to Graduate standing in the Divinity School,—a recognition which also carries with it registration as a member of the Graduate Department of the University, and, in case of those who hold a bachelor's degree equivalent to that of Yale University, the privilege of working for the M.A. or Ph.D. degrees. This opportunity is designed to meet the needs of three classes of theological graduates : those who desire to pursue an advanced course of general theological study ; those who desire to pursue, for a year or two, special subjects of reading or investigation in any of the departments of theology under the advice and direction of the Professors, and with the help furnished by the Reference and University Libraries ; and those who are desirous of winning an advanced degree. Candidates for membership in this class are admitted by vote of the Faculty.

From the connection of the Divinity School with the other Departments of the University, special advantages for the prosecution of linguistic and other studies are open to students preparing for service as foreign missionaries.

Members of the Graduate class are required, in all ordinary cases, to take at least seven hours weekly of Divinity courses and are expected to continue their studies in the Divinity School during the entire year. Their fees and privileges in respect to rooms, by vote of the Faculty, are the same as those of the undergraduates (see p. 456). A limited number of scholarships are open to members of this class (see p. 461).

The degree of M.A. requires one year of residence, and that of Ph.D. ordinarily three years of residence. Both demand scholarly work of a high quality. The proposed course of study must have the approval of a committee of the Academical Faculty in case of M.A., and of the Graduate Faculty in case of Ph.D.

#### **STUDENTS PURSUING SELECTED STUDIES**

The privileges of attendance at the lectures and use of the libraries of the Divinity School and University are granted, on application to the Faculty, to young men who desire to pursue special studies throughout the year. A fee of ten dollars for Library and incidental expenses will be charged in such cases. Rooms will be furnished to students thus enrolled and pursuing not less than seven hours weekly of Divinity courses at one-half the price charged occupants who are not members of the Divinity School.

#### **TERMS OF STUDY**

Each year is divided into two terms of study by the Christmas vacation. The second term extends to the first Tuesday in June, with a short recess at Easter. Examinations precede each recess. It is expected that every student will be present at the beginning of each session. Catalogues and forms of application for admission may be obtained by addressing Professor Edward L. Curtis, Yale Station, New Haven, Conn.

#### **LICENSE TO PREACH**

Licenses to preach are granted by local and other Associations to students sustaining a satisfactory examination.

The regular time for applying for licensure is near the close of the Middle year, before which time the members

of the Divinity School are not expected to accept regular appointments to preach, without special permission of the Faculty.

#### DEGREES

The degree of Bachelor of Divinity is conferred by the President and Fellows of the University on all members of the School who, having been admitted by the Faculty as candidates for this degree (see pp. 433 and 434), satisfactorily complete the prescribed course of study and present an approved thesis on some topic of theology. A fee of five dollars is charged for a diploma.

Students who have completed two years of study in this School, and who, at the close of the Middle year, desire to forego candidacy for the degree of B.D. and enter the Graduate School as candidates for the degree of Ph.D. in the Departments of Biblical Literature and Semitic Languages or Philosophy, will be enrolled as members of the Senior class, and allowed its privileges, provided they pursue the prescribed studies of that year.

#### THE COURSES OF STUDY

Beginning with the class entering at the opening of the academic year 1907-08, the studies pursued in the Divinity School were grouped into three courses, each leading to the degree of B.D., and known as Historical ("Course A"), Philosophical ("Course B"), and Practical ("Course C"). The study of Hebrew is required only in the Historical course, which corresponds substantially to the outline of studies formerly pursued in the Divinity School.

The aim of the Philosophical course is not merely to emphasize acquaintance with the historic and theoretic exposition of Theology, but to ground the students thoroughly in modern scientific and philosophical conceptions of the world viewed from the Christian standpoint. As a preliminary discipline for this course the students are required to take special studies in the Junior year in Philosophy and Science. These are furnished in part by the

Divinity School Faculty, but the Departments of Philosophy and Science in the University assist in this instruction.

In a similar way the Practical course emphasizes the relation of the minister to the problems of modern society, giving special attention to Christian Sociology, Ethics, and Methods of Christian Activity. As a preliminary discipline, students who take this course receive in Junior year special instruction in Sociology and instruction in Elementary Law in one of the courses furnished by the University for Law students.

Certain studies of the Divinity School in the Old and New Testaments, Biblical and Systematic Theology, Church History and Homiletics, are required of all students. In those courses in which Hebrew is not obligatory provision is made for the study of the Old Testament in English.

Students of ability who so desire may by the use of electives obtain substantially the advantages offered by all three of these courses during a three years' residence as candidate for the degree of B.D.

#### GENERAL DESCRIPTION OF THE COURSES OF STUDY BY DEPARTMENTS†

##### DEPARTMENT OF OLD TESTAMENT LITERATURE AND HISTORY

PROFESSOR CURTIS

The prescribed work in this department for the degree of B.D. for students taking the Historical course (see p. 437) consists of one hundred and sixty hours on the Hebrew language and the Hebrew text; but by use of electives one can read critically nearly the entire Old Testament in the Hebrew, and also obtain an elementary knowledge of one or more of the cognate languages during his theological course. Students who do not take Hebrew have an equal opportunity, on the basis of the English text, by means of electives, to familiarize themselves with

† The number of hours stated, when not otherwise specified, means hours of recitations or lectures throughout the year.



the Old Testament. Special attention is given to the problems of Old Testament Introduction. In this, sixty-four hours are required of all students during their Junior year.

#### I. PRESCRIBED COURSES

PROFESSOR CURTIS

JUNIOR YEAR

- 1 *Elementary Hebrew and Exegesis* (required in Course A).  
3 hrs.

[See Course II, 1, page 332.]

- 2 *Old Testament Introduction* (required in Courses A, B, and C).  
2 hrs.

[See Course II, 27, page 334.]

MIDDLE YEAR

- 3 *Hebrew Language and Exegesis* (required in Course A).  
2 hrs.

[See Course II, 2, page 332.]

- 4 *The Old Testament (English)* (required in Courses B and C).  
2 hrs.

An exposition of the Old Testament Prophetic and Poetic Literature with a view to their use in the pulpit and the Bible class.

#### II. ELECTIVE COURSE •

PROFESSOR CURTIS

OPEN TO ALL CLASSES

- 5 *The Wisdom Literature (Hebrew)*.  
1 hr.

A course in translation and exegesis. The Books of Proverbs and Ecclesiastes are studied.

#### DEPARTMENT OF NEW TESTAMENT LITERATURE AND HISTORY

PROFESSOR BACON and MR. CLAPP

In this department it is assumed that the student having already mastered the elements of the Greek language, aims at interpretation of the historical New Testament. The first term, accordingly, is devoted to a practical application of the principles of historical Exegesis to the Pauline Epistles, with lectures on the methods and apparatus of the science. The second term is devoted to critical study of the Synoptic Gospels, with lectures on

Introduction, or the study of the origins of the New Testament books.

By the use of the electives in the Undergraduate and Graduate Departments of the University, a thorough training may be obtained in the peculiarities of Hellenistic Greek, and on the grammatical and philological side of the subject generally. The prescribed work of the regular Divinity Course, accordingly, is mainly directed toward Criticism and Exegesis, the Divinity electives supplementing the regular course by a more extensive exegesis of the New Testament writings, a wider outlook into their relations to contemporary Hellenistic thought and literature, and a deeper historical study of their origins.

In view of the fact that many colleges no longer require Greek as part of their curricula, provision has been made whereby college graduates of promise may substitute during the Junior year, for the courses in Greek numbered 6 and 7 below, the course in Church History regularly assigned to the Middle year and numbered 24, taking these courses in Greek during the Middle year. That they may be prepared for these courses, instruction in Elementary Greek has been provided to the amount of two hours a week throughout Junior year, which may be taken as an elective study; but, owing to its rudimentary character, it will be counted as only one hour of credit.

#### I. PRESCRIBED COURSES

##### PROFESSOR BACON

##### JUNIOR YEAR

- 6 *The Pauline Epistles* (required in Courses A, B, and C).  
3 hrs. 1st term.  
[See Course V, B 13, page 149.]
- 7 *The Synoptic Gospels* (required in Courses A, B, and C).  
3 hrs. 2d term.  
[See Course V, B 13, page 149.]
- 8 *New Testament Introduction* (required in Courses A, B, and C).  
2 hrs. 1st term, 1 hr. 2d term.  
[See Course II, 37, page 335.]

## II. ELECTIVE COURSES

## OPEN TO ALL CLASSES

- 9 *The Christological Epistles.* 1 hr. 1st term.  
[See Course II, 34, page 335.]
- 10 *The Teaching of Jesus.* 1 hr. 2d term.  
Historico-critical exegesis of the principal discourses of Jesus, embodied in Matthew and Luke. Book reviews by the class.
- 11 *Theological German.* 2 hrs. 1st term, *to count as 1 hr.*  
Reading and discussion of standard German treatises for practice and information.
- [12 *Hebrews and Catholic Epistles.* 2 hrs. 2d term.  
[See Course II, 40, page 335.]  
Omitted in 1908-09.]
- 13 *Origin of the Johannine Writings.* 2 hrs. 2d term.  
[See Course II, 41, page 335.]
- 14 *Historical Origins of the Church.* 2 hrs. 1st term.  
Historico-critical analysis of the Book of Acts. The method will be to assign consecutive sections of the book to members of the class for discussion from the standpoint of the critical historian, treating it as the fundamental source for a critical history of the Apostolic Age.

## III. GRADUATE COURSES

- 15 *Patristic Greek.* 1 hr. 1st term.  
[See Course II, 42, page 336.]
- 16 *Problems of Textual Criticism.* 1 hr. 2d term.  
A seminar course in textual criticism.

## SPECIAL ELECTIVE

MR. CLAPP

- 17 *New Testament Greek* (required in certain cases; see p. 440). 2 hrs., *to count as 1 hr.*  
A grammatical and philological course to prepare graduates of colleges who have not taken Greek as a part of their college course for the regular work of the department of the New Testament and to give further practice to any whose proficiency is insufficient for proper participation in the regular New Testament studies. See also Course V, B 15, page 149.

## GENERAL ELECTIVE

MR. CLAPP

- 18 *Life and Literature of the Apostolic Age.* 2 hrs.  
[See Course V, B 5, page 148.]

## DEPARTMENT OF BIBLICAL THEOLOGY

## PROFESSOR PORTER

In this department the religious thought and life of the Old and New Testaments are studied from the point of view and with the methods of the science of religious history. The effort is not to construct a Biblical Dogmatics, nor merely to set forth in a systematic way the theological conceptions of the several books, but, on the one hand, to understand the religious history out of which the books came, and gain a right appreciation of its persons and events, its shaping forces and the continuity and progress of its movements; and, on the other hand, to study some of the ruling religious ideas of the Bible in their historical origin, and the various stages of their development, and in their meaning and value for religious faith and life.

## I. PRESCRIBED COURSES

## MIDDLE YEAR

- 19 *The Theology of Judaism* (required in Courses A, B, and C). 2 hrs. 2d term.

[See Course II, 29, page 334.]

## SENIOR YEAR

- 20 *Biblical Theology of the New Testament* (required in Courses A, B, and C). 3 hrs.

[See Course II, 30, page 334.]

## II. ELECTIVE COURSES

## OPEN TO THE MIDDLE AND SENIOR CLASSES

- 21 *Theology of the Pre-exilic Prophets.* 2 hrs. 1st term.

[See Course II, 28, page 334.]

- 22 *Hellenistic Judaism.* 1 hr.

[See Course II, 31, page 335.]

- 23 *Studies of Christology.* 1 hr.

[See Course II, 32, page 335.]

## DEPARTMENT OF CHURCH HISTORY

## PROFESSOR WALKER

The aim in this department is to guide the student to a conception of Christian history as the development of the Kingdom of God on earth. While no line is drawn

between the sacred and the secular in history, and all historic progress is regarded as essentially one divinely guided process, the primary themes in this department are necessarily the origin, growth, principles, divisions, and leaders of the Christian Church. The development and history of Christian Doctrine is considered in chronological connection with the narrative of the progress of the Church, and also in a supplementary special course. An effort is made to acquaint the student with proper methods of historical investigation and criticism, and to give him some facility in their use.

#### I. PRESCRIBED COURSES

##### MIDDLE YEAR

- 24 *Church History from the Apostolic Age to the Close of the Papal Schism* (required in Courses A, B, and C).  
2 hrs.

[See Course IX, 69, page 385.]

##### SENIOR YEAR

- 25 *Church History from the Beginnings of the Reformation to the present Age* (required in Courses A, B, and C).  
2 hrs.

[See Course IX, 75, page 387.]

- 26 *History of Christian Doctrine* (required in Courses A and B).  
1 hr.

A survey of the development of Christian thought from the Apostolic age to the present.

#### II. ELECTIVE COURSES

##### OPEN TO THE MIDDLE AND SENIOR CLASSES

- 27 *The History of Congregationalism*. 1 hr. 1st term.  
A rapid survey designed to familiarize the student with the origins and leading events of Congregational history.
- 28 *The Christian Church*. 1 hr. 2d term.  
[See Course IX, 71, page 386.]

#### III. GRADUATE COURSES

- 29 *Christian Literature from Clement of Rome to Eusebius*.  
1 hr. throughout the year.

This course is intended to acquaint the student with the principal ecclesiastical authors of the period from the close of the Apostolic Age to the Conversion of the Roman Empire.

A student desiring to specialize in Church History will find the courses offered by the University in History, Paleography, and Epigraphy of much advantage. The more important of these courses are indicated on pp. 385-87.

#### DEPARTMENT OF SYSTEMATIC THEOLOGY

DR. VAN KIRK

The aim in this department is to set forth the grounds and content of the Christian faith by a method at once historical, critical, and constructive. With this end in view, the first year is devoted to the consideration of the philosophical and historical bases of Christian theology. During the second year a systematic investigation of theology is undertaken, including the study of each doctrine in its biblical elements and chief historical forms. Ample opportunity is afforded for collateral reading and informal class discussions.

##### I. PRESCRIBED COURSES

###### JUNIOR YEAR

- 30 *The Philosophical Basis of Christian Theology* (required in Course B). 2 hrs.

The aim of this course is to prepare the student to approach the required work of the middle year in Systematic Theology (Course 31) with an adequate knowledge of the history of philosophic thought.

###### MIDDLE YEAR

- 31 *Systematic Theology* (required in Courses A, B, and C). 3 hrs.

The course includes the investigation and discussion of such topics as the Doctrine of Sacred Scripture, the Christian Ideas of God and of Man, the Origin, Nature, and Consequences of Sin, the Person of Christ, the Work of the Holy Spirit, the Trinity, the Atonement, the Christian Life, the Church, and the Consummation of the Kingdom of God.

#### DEPARTMENT OF PRACTICAL THEOLOGY

PROFESSOR VERNON AND DR. NASH

The aim in this department is to guide the student to a large and distinctively Christian message and to aid him in presenting it effectually to men.

## PRESCRIBED COURSES

## MIDDLE YEAR

- 32 *Elementary Homiletics* (required in Courses A, B, and C). 2 hrs.

The work of the first term will concern the conduct of Christian worship. In the second term the more external matters of homiletics will be treated, the emphasis being placed upon sermonic style and structure.

## SENIOR YEAR

- 33 *Advanced Homiletics* (required in Courses A, B, and C). 2 hrs.

The emphasis in this course will be placed rather upon the content than the form of preaching, though the latter will not be ignored. The object is to insure a definite and consistent message that shall be thought out as thoroughly as possible by the student and that shall be adapted to our present age.

In addition to these courses, debates under the auspices of the LEONARD BACON DEBATING CLUB, and addresses by the students, are held on alternate Wednesdays under the supervision of this department (see p. 454). Attendance is required of all undergraduate students.

## COURSE IN PASTORAL FUNCTIONS

## SPECIAL LECTURERS

This course is designed to fit and inspire the student to meet every emergency of ministerial life on the practical side from the point of view of the active ministry. Hence the instruction will be given entirely by active ministers of experience and of proved efficiency in the subjects presented.

The following is a partial list of the topics and of the instructors of this course for the year 1908-09:

1. "Work Among Wage-Earners," by Rev. Edward B. Robinson (B.D. 1899), of Holyoke, Mass.
2. "Work Among Non-English Speaking People," by Rev. Ozora S. Davis, Ph.D., of New Britain.
3. "The Peculiar Problems of the Country Church," by Rev. Wilbert L. Anderson, D.D. (B.D. 1882), of Amherst, Mass.
4. "The Minister's Opportunity in Association with Civic Reform, Industrial Organizations, Political Life, and Similar

Movements of Society," by Rev. Charles S. Macfarland, Ph.D. (B.D. 1897), of South Norwalk.

5. "The Sunday School," by Rev. A. F. Schauffler, D.D., of New York City.

6. "The Midweek Service," by Rev. Frederick B. Richards, M.A. (B.D. 1891), of South Boston, Mass.

7. "The Essentials of a Ministry to Men," by Rev. Anson Phelps Stokes, Jr. (B.A. 1896), Secretary of Yale University.

8. "Church Administration and Finances," by Rev. Henry A. Stimson, D.D. (B.A. 1865), of New York City.

9. "Methods of Raising Contributions for Benevolence," by Rev. Cornelius H. Patton, D.D. (B.D. 1886), of Boston, Mass., Home Secretary of the American Board of Commissioners for Foreign Missions.

10. "Mental Healing," by Rev. George B. Cutten, Ph.D. (1897), of Columbus, Ohio.

11. "Methods of the 'Emmanuel Clinic,'" by Rev. Elwood Worcester, D.D., of Boston, Mass.

12. "The Minister as a Student," by Rev. Charles A. Dinsmore, D.D. (B.D. 1888), of Waterbury.

13. "The Relation of the Minister to National and International Movements of Ethical Reform," by Rev. Frederick Lynch, (B.A. 1894), of New York City.

14. "Pastoral Duties," by Rev. Rockwell H. Potter, D.D., of Hartford.

15. "Professional Courtesy," by Rev. Nehemiah Boynton, D.D., of Brooklyn, N.Y.

## DEPARTMENT OF MISSIONS

### PROFESSOR BEACH

The establishment of the Chair of the Theory and Practice of Missions enables the Divinity School to make more prominent than in the past this study, so essential in the preparation of the minister for the missionary activities of the modern church, and more important still for the increasing number of men who are looking forward to actual service on the foreign field. The foundation of the professorship calls for periodical tours of visitation and study of missions in the non-Christian countries, the first of which began in March, 1907, and was completed in September, 1908.



The Library of Foreign Missions, containing about 7,500 titles, as well as a complete set of the current periodicals and reports, affords an opportunity unequalled in America for original research and for unrestricted reading.

Candidates for foreign missionary service will find in elective courses open to them in the University exceptional opportunities for broadening their preparation. Thus Arabic, Chinese, Japanese, Sanskrit, Pali, and Spanish will be an aid in language preparation, so far as this may be done profitably in America. Special biblical courses, pedagogy, international law, anthropology, and Oriental history are other studies which will helpfully supplement the work of the Divinity School.

#### I. PRESCRIBED COURSES

##### MIDDLE YEAR

(Elective for Seniors and Graduate Students)

- 34 *Non-Christian Religions and Christianity* (required in Courses A, B, and C). 1 hr.

The lower religions found among uncivilized races, popular Hinduism and the reform movements of India, Buddhism, and Mohammedanism will be studied in their relation to Christian teachings and the missionary propaganda. The course furnishes helpful sidelights for the study of Christian theology, as well as practical suggestions for missionary candidates.

##### SENIOR YEAR

(Elective for Graduate Students)

- 35 *Factors in Missionary Efficiency* (required in Courses A, B, and C). 1 hr.

A series of lectures and readings the aim of which is to discover, analyze, and determine the values of those elements which characterize successful missionary enterprises of recent years. Especially helpful to prospective missionaries.

#### II. ELECTIVE COURSES

##### OPEN TO SENIORS AND GRADUATES

- 36 *The Present Status of Asiatic Missions.* 1 hr.

The course consists of readings prescribed for the students and lectures based upon studies and observations made during a tour of Asiatic mission fields in 1907-08. The social, politi-

cal, intellectual, and religious conditions of leading Oriental countries will be presented, especially in their relation to the missionary enterprise.

#### DEPARTMENT OF CHRISTIAN SOCIOLOGY

ASSISTANT PROFESSOR BAILEY AND MR. MCGREGOR

It is intended that the courses offered in this department shall be taken in their proper order by the members of the various classes, as it is assumed that the students of the Senior class are familiar with the principles laid down during the Junior and Middle years. The visit to the New York institutions is taken also by the members of the Senior class who elect the course in Practical Sociology.

ASSISTANT PROFESSOR BAILEY AND MR. MCGREGOR

##### JUNIOR YEAR

- 37 *Systematic Sociology* (required in Course C). 3 hrs.

Lectures one hour weekly on the historical development of the theories of the leading writers upon this subject. The doctrine of evolution, the organization of society, the formation of the social classes, the conflict of the individual with society, the ethical aspects of social and economic problems will be treated. Two hours per week will be devoted to quiz exercise and discussion upon assigned reading.

ASSISTANT PROFESSOR BAILEY

##### MIDDLE YEAR

- 38 *Practical Sociology* (required in Course C). 2 hrs.

The problems connected with the negro, the concentration of population in cities with the attendant dangers, crime, immigration, the liquor question, and other important American questions will be studied.

##### SENIOR YEAR

- 39 *Practical Philanthropy* (required in Course C). 2 hrs.

[See Course IX, 43, page 383.]

For the University elective courses in Economics and Sociology, see pp. 381-83.

#### PRACTICAL WORK IN THE DEPARTMENT OF CHRISTIAN SOCIOLOGY

The department offers exceptional opportunities for the student who wishes special training in applied philanthropy or welfare work. New Haven affords in Lowell

House a social settlement, and in the various charitable organizations excellent examples of modern methods of charity. In 1902 some of the seniors in the department made an investigation of tenement house conditions in one of the most congested sections of the city. In 1906 a study was made of the Italian population of the city. Investigations of this nature afford opportunity for first-hand study of social problems. The system of practical work in connection with the general scholarships offers further advantages of the same kind.

There have recently been added over five hundred lantern slides to illustrate the lectures before the department.

In connection with the regular work of the courses, lectures are delivered by men who have made a special study of some topic. Among those who will speak during the college year 1908-09 are the Rt. Hon. James Bryce, the Hon. T. M. Osborne, Prof. E. A. Steiner, Mr. Hamilton Holt, Rev. H. Roswell Bates, Mr. John Mitchell, Mr. Henry Sterling, Mr. William R. George, and Rev. Robert Boville.

The theoretical work is supplemented by an annual visit of two or three days to the charitable and correctional institutions of New York City, under Professor Bailey's direction.

#### ELOCUTION

##### MR. LEWIS

The aim of these courses is to fit men to read and speak effectively. They form a progressive series and consist of two distinct lines of work : the practice of technical exercises for the development of voice and body ; the practice of the specific problems presented by the art of reading and speaking. Class-room work will be supplemented by individual work throughout.

For a statement regarding the Downes and Mersick prizes, founded to stimulate an interest in the work of this Department, see pp. 459 and 460.

## JUNIOR YEAR

- 40 *Voice Training and Vocal Expression* (required in Courses A, B, and C). 1 hr.

This course aims to develop the voice and body as expressive agents.

## MIDDLE YEAR

- 41 *Advanced Vocal Expression and Voice Training* (required in Courses A, B, and C). 1 hr.

This course offers practice in the reading of different forms of literature, including Bible and Hymn reading.

## SENIOR YEAR

- 42 *Advanced Reading and Speaking* (required in Courses A, B, and C). 2 hrs.

The aim of this course is to meet the need of each man as a preacher. There will be practice in Bible and Hymn reading, but the main emphasis, this year, will be placed upon the delivery of the sermon.

## RELIGIOUS EDUCATION

PROFESSOR KENT AND MR. CLAPP

GENERAL ELECTIVE OPEN TO ALL CLASSES

- 43 *Principles and Methods of Religious Education.* 2 hrs.

[See Course V, C 19, page 149.]

## MUSICAL TRAINING

The courses of instruction in the Department of Music are open to Divinity students on the conditions stated on pages 403 and 404. These courses, under Professors Parker and Jepson, and Mr. Smith, include Harmony, Counterpoint, History of Music, Composition, and Instrumentation, affording the fullest opportunities for any one who seeks to perfect his training as a director of church music.

## SUPPLEMENTARY PRACTICAL TRAINING

In addition to the more systematic and theoretical courses of study, provision is made by lectures and conferences, and through opportunities for observation and experience, for students to become acquainted with such various forms of administrative work as are required in the life of a pastor.

### SCIENCE AND LAW

As preliminary disciplines of high value in themselves, and as especially preparatory to the Philosophical and Practical courses, members of the Junior class choosing those courses will be required to pursue studies as indicated below.

ASSISTANT PROFESSOR LULL

44 *Organic Evolution* (required in Course B).

2 hrs. 1st half year.

[See Course XIX, B 17, page 178.]

PROFESSOR BALDWIN

45 *American Constitutional Law* (required in Course C).

2 hrs.

[See Course XXV, 53, page 204.]

### UNIVERSITY ELECTIVES

OPEN TO ALL CLASSES IN THE DIVINITY SCHOOL

The Graduate Courses of Instruction in the University are open to the students of the Divinity School without charge, on conditions prescribed by the Theological Faculty. Undergraduate courses in the University are also open to students of the Divinity School with the consent of the instructor in each case and likewise under conditions prescribed by the Theological Faculty.

For a full list of these courses see Graduate School.

### SUBSIDIARY MEANS OF INSTRUCTION

#### LIBRARIES

The UNIVERSITY LIBRARY contains about 450,000 volumes and many thousands of unbound pamphlets. The Library is particularly strong in theology. The LINONIAN AND BROTHERS LIBRARY contains about 20,000 volumes in general literature. To these Libraries the Divinity students, in common with the other members of the University, have access.

In addition to the periodicals received at the University Library, there will be found in the Reading Rooms nearly two hundred newspapers and current periodicals.

THE REFERENCE LIBRARY OF THE DIVINITY SCHOOL, established by the late Henry Trowbridge, Esq., of New Haven, and placed in the Leonard Bacon Memorial Hall, is open for consultation throughout the day and evening. It contains about 4,750 carefully selected volumes, in every department of theological literature, and additions are constantly being made.

THE VALUABLE LIBRARY OF CHURCH MUSIC belonging to the late Dr. Lowell Mason was given to the Divinity School by his family and is now incorporated with the University library. This library contains about 8,000 titles in 4,000 volumes.

THE HISTORICAL LIBRARY OF FOREIGN MISSIONS numbers 7,500 volumes, including pamphlets. It is now an ample collection of the entire body of the Foreign Mission Literature of Europe and America, and with this comprehensive character has become one of the largest special libraries of the kind in the world.

THE REFERENCE LIBRARY OF BIBLICAL LITERATURE of the Department of Semitic Languages and Biblical Literature in the University is available to members of the Divinity School.

THE SALISBURY COLLECTION of Oriental manuscripts, books, and works of reference, the library of the American Oriental Society, the collection of rare and valuable Arabic manuscripts, made by Count Landberg, acquired for Yale University through the munificence of the late Morris K. Jesup, Esq., of New York City, and the well-stocked Semitic sections of the general Library, furnish exceptional advantages and opportunities for independent research to the student of Semitic literature.

#### DIVINITY SCHOOL LECTURESHIPS

THE LYMAN BEECHER LECTURESHIP on Preaching (or other topic appropriate to the work of the ministry) was founded in 1871 by a gift of ten thousand dollars from Mr. Henry W. Sage, then of Brooklyn, N. Y., as a memorial to the great divine whose name it bears. The lec-

tureship is of unique importance in the field of practical theology, as evidenced by the series of lectures published in successive volumes. Among the incumbents of the lectureship may be mentioned Henry Ward Beecher, 1872, Phillips Brooks, 1877, Robert W. Dale, 1878, Washington Gladden, 1887 and 1902, James Stalker, 1891, A. M. Fairbairn, 1892, R. F. Horton, 1893, John Watson (Ian McLaren), 1897, George Adam Smith, 1899, George A. Gordon, 1902, Lyman Abbott, 1903, Francis Greenwood Peabody, 1904, Charles R. Brown, 1906, Principal Peter T. Forsyth, 1907, and President Faunce, 1908. The series this year is to be given by Rev. Herbert Hensley Henson, D.D., Canon of Westminster, London.

The NATHANIEL WILLIAM TAYLOR LECTURESHIP in Theology was created in 1902 by the gift of five thousand dollars from Mrs. Rebecca Taylor Hatch, of Brooklyn, N. Y., in memory of her father, professor of divinity in this institution from 1822 to 1858. The lecturers on this foundation have been Professor George W. Knox, 1903, President William D. Mackenzie, 1904, Professor William N. Clarke, 1905, Professor Samuel Sathianadhan, 1906, President Henry C. King, 1907, Professor Georg Wobbermin, 1907-08. The series this year will be given by Rev. George A. Gordon, D.D., of Boston.

The ALUMNI LECTURESHIP was created in 1902 by vote of the Faculty. It provides for one or more lectures each year to be given by an alumnus in recognition of research carried by him to a successful issue. The next lecturer will be Rev. Harry E. Peabody (B.D. 1891), of Hartford.

#### CLUBS

A number of voluntary associations of instructors and students exist in the University, whose meetings for the reading and discussion of papers are open to all students. Membership in these clubs is open to those who are qualified. Of special interest to divinity students are the SEMITIC AND BIBLICAL CLUB, the GEORGE B. STEVENS THEOLOGICAL CLUB, the HEBRAIC CLUB, and the PHILOSOPHICAL CLUB.

### **EXERCISES IN PUBLIC SPEAKING**

A rhetorical exercise for all the classes, at which all undergraduate students are expected to be present, is held every Wednesday, in Marquand Chapel, in the presence of the Faculty, and under their direction. Once in two weeks an address is delivered, followed by criticism and discussion. Each alternate week there is an exercise, designed for the cultivation of the power of the students in extemporaneous speaking, as well as for the discussion of subjects of practical importance.

These biweekly debates are held under the auspices of the LEONARD BACON DEBATING CLUB, which is designed to promote interest in important public questions and the effective discussion of them. All members of the Divinity School who are interested in public debate are eligible to membership. Occasional addresses are given before the club by prominent men on subjects germane to its purpose.

### **RELIGIOUS AND SOCIAL PRIVILEGES**

#### **PUBLIC WORSHIP**

There is daily worship in Marquand Chapel at 12.30 o'clock.

On Friday of each week, in place of the usual chapel service, there is substituted a very brief service with an accompanying address. The speakers represent visitors, resident clergymen, members of the University and Divinity faculties. On Thursdays the service is largely of a musical character.

A general prayer meeting of the Divinity School, led by members of the Divinity Faculty or by students, is held on Thursday evenings in Marquand Chapel.

On the Lord's day students have the privilege of listening to many of the most eminent preachers of this and other countries.

#### **YOUNG MEN'S CHRISTIAN ASSOCIATION**

The Young Men's Christian Association of the Divinity School has for its object to deepen the spiritual life of the



students, to increase their interest in missions, and to bring them into fellowship with similar associations throughout the world. Occasional addresses are given by persons especially engaged in and familiar with missionary work. Classes for the devotional study of the Bible by the students are conducted under the auspices of the Association.

#### **CONCERTS**

Many opportunities of hearing the best music are open to all students of the University, at moderate cost.

#### **SOCIAL LIFE**

The Lowell Mason Room, in West Divinity Hall, is furnished as a Social Room, and serves as a center for the common life of the students. It contains magazines and daily papers, a piano, and other means of recreation.

#### **PHYSICAL EXERCISE**

The University Gymnasium, is open to the students of this Department at a small charge. The Yale Field is available for baseball and football.

Within the Divinity School enclosure are tennis courts carefully graded and well maintained, with reasonable space for other out-of-door recreation.

#### **INFIRMARY**

The Yale Infirmary is open in case of sickness to students of all Departments of the University, affording the best medical attendance and nursing at a minimum cost.

### **ROOMS AND EXPENSES**

#### **BUILDINGS**

The buildings of the Divinity School are East and West Divinity Halls—to be known, after September 1, 1909, as Edwards and Taylor Halls,—which contain furnished rooms for students ; Marquand Chapel ; and the Leonard Bacon Memorial Hall, containing the Trowbridge Reference Library.

#### **ASSIGNMENT OF ROOMS**

The buildings are accessible on Monday of the opening week of the Fall term, and temporary accommo-

dations are provided for new students whose applications have been received. The assignment of permanent rooms to new students is made on Wednesday, the day before that on which the term opens, at 2 o'clock P. M., in the Lowell Mason Room. The suites, which include a separate bedroom, are designed, for the most part, for one occupant, but a considerable number afford accommodation for two. They are provided with all necessary furniture, except bed-clothes, which may be brought by the occupants, or will be furnished at a moderate charge. Questions regarding location of rooms, disposal of baggage, furniture, bedding, and the like, should be addressed to the Superintendent of the Divinity Buildings, Mr. Ezra P. Merriam, East Divinity Hall.

#### EXPENSES

The fixed charges for each undergraduate student for the annual session of thirty-two weeks are five dollars for the University Library fee, ten dollars for the care of room, twenty dollars for heating of room (divided in case of two or more occupants), and five dollars for general administrative expenses. Each room is in addition charged for the gas consumed, as indicated by the room meter. No charge is made for tuition.

The University Dining Hall furnishes board at cost (approximating four dollars and a half per week). Board may be obtained at private eating-clubs in the city at three dollars and a half per week.

The expenses of a student for the school year, exclusive of clothing and sundries, may be estimated as follows :

Care of room.....	\$10.00
Heating of room.....	10.00 or 20.00
Board, 32 weeks (not counting 4 vacation weeks) ..	112.00 to 144.00
Incidentals .....	10.00
Rent of bedding .....	1.50
Laundry .....	18.00
Text-books and stationery.....	20.00 to 50.00
Gymnasium, tennis-courts, etc. ....	5.00 to 10.00
Subscriptions.....	5.00
Total .....	\$191.50 to \$268.50

By rigid economy the cost of board and of items other than fixed charges may be somewhat reduced.

The charges for an undergraduate student who does not room in the Divinity buildings will be five dollars for the University library fee and five dollars for general administration expenses.

## **SCHOLARSHIPS AND PRIZES**

### **OPPORTUNITIES FOR SELF-HELP**

The long summer vacation is designed to enable students to engage in preaching under the Home Missionary societies, or in other remunerative employment.

During the latter part of the course, some of the students receive remuneration for preaching in places easily accessible. The other opportunities for self-help are work in the library, assistance to Professors, service in eating establishments, and those ordinarily open to University students.

### **GENERAL SCHOLARSHIPS CONDITIONED ON RELIGIOUS WORK**

General scholarship funds have been given to the Divinity School by various donors, to enable students of promise to prepare for the Christian ministry, in cases where without such assistance they are unable to do so. By cultivating the spirit of independence, and, at the same time, promoting the practical efficiency of the students themselves, the intention of the donors will be best fulfilled. Scholarship aid is therefore considered not as a gift, but as a means of livelihood obtained by a definite amount of religious work, under competent supervision.

Members of the undergraduate classes whose circumstances require it may make application for scholarship employment, at the beginning of the year. After personal consultation with the Director of Religious Work, each man whose application is approved is assigned to service under one of the pastors or mission workers of the city. The assignment and general supervision are in charge of the Director of Religious Work. In consideration for

the service received, the pastor or mission worker agrees to give to the student working under him direct supervision and the benefit of his experience. The average amount of time required is six hours per week. The usual remuneration is not less than one hundred and twenty-five dollars per year, payable in semi-annual installments. In cases where the quantity or quality of the work proves conspicuously above or below the standard, the remuneration will be graded accordingly. Regular reports are required from both students and pastors at the end of each term, and payments are made as soon as the work of the student has been pronounced satisfactory.

As one object of the system is to supplement the training given in the Department of Practical Theology, only those employments are selected which involve personal contact with the cases and types which a future pastor is likely to meet, and a study of the personal and parish problems with which he will be confronted. Teaching and public speaking are placed in the background, to leave room for some form of visiting under the guidance of a mature worker. In most cases the student is given a small parish of a few families, for whose religious growth he is largely responsible.

Students whose circumstances do not require scholarship aid, but who desire to have the benefit of the practical training which the system gives, may volunteer for similar work, with the same privilege of mature supervision.

#### **EDUCATION SOCIETY GRANTS**

Students intending to enter the Congregational ministry, if their circumstances require it, may receive fifty dollars per year, as a grant or loan, from the Congregational Education Society. This aid is conditioned upon good scholarship and high general merit, and requires an examination and certificate by the local committee of the Society.

**PRIZE SCHOLARSHIPS**

A limited number of prize scholarships of one hundred dollars and of fifty dollars each, the former known as the Fogg and the latter as the ALLIS SCHOLARSHIPS, are awarded, on the basis of high scholarship, to members of the several classes at the beginning of each half-year. Candidates for these scholarships for the first half of the Junior year are required to pass an examination in Greek (at sight), Philosophy, and English Literature (in addition Hebrew, History, or Economics may also be offered), on entering the Divinity School, or as may be otherwise arranged with the Faculty. Testimonials and other evidence of previous scholarship will have weight in determining the award. The grade of scholarship required in a candidate for a Fogg Scholarship is that of the Philosophical Oration at Yale College. The regular examinations at the end of each term determine the award of these scholarships for the next succeeding term. A corresponding entrance examination in theological studies equivalent to those of the first or second year is required of candidates for these scholarships who enter the Middle or Senior class as new students.

The Allis Scholarships of fifty dollars each stand in the relation of second prizes to the Fogg Scholarships.

Young men of superior ability and attainments, whose circumstances require it, may thus, through the general and prize scholarships, receive two hundred dollars a year throughout their Divinity course.

Honorary rank is in all cases given to students who are equal in merit to the holders of the Fogg and Allis Scholarships, but whose circumstances are such that they do not require pecuniary assistance.

**PREMIUMS**

The DOWNES PRIZES, founded in 1896 by the late William E. Downes, Esq., of New Haven, will be awarded to the students of the Middle and Junior classes who shall attain to the highest proficiency in the public reading of the

Scriptures and of Hymns. A first prize of thirty dollars and a second prize of twenty dollars will be assigned by a committee appointed by the Faculty to the two successful competitors in each of these classes.

The MERSICK PRIZES, founded in 1906 in memory of the late Charles S. Mersick, Esq., of New Haven, are designed to promote the attainment of effective public address, especially in preaching. For the year 1908-09 prizes will be awarded as follows :

1. Two prizes, of thirty and twenty dollars respectively, are offered to members of the Middle class who have faithfully pursued the course in Elocution, for the best rendering of a selection from an original sermon.

2. Three prizes, of twenty-five, fifteen, and ten dollars respectively, are offered to each of the undergraduate classes in the Divinity School, viz., Junior, Middle, and Senior, to be awarded to those members of the classes who exhibit the greatest proficiency in the Department of Elocution.

3. Five prizes of twenty dollars each will be awarded to the Anniversary speakers in the following manner : each of the four speakers selected to represent the Divinity School at its Anniversary shall receive a prize of twenty dollars, and a further prize of twenty dollars shall be awarded to the speaker whose address at the Anniversary shall be deemed best by a committee of judges.

In addition to the Downes and Mersick prizes above described, the John A. Porter University prize, the Cook prize in poetry, the Jacob Cooper prize in Greek Philosophy, the George Washington Egleston historical prize, and the Philo Sherman Bennett prize, are open to students of the Divinity School as well as to the students of other Departments of the University. (See pages 577-79.)

#### GRADUATE FELLOWSHIPS

A GRADUATE FELLOWSHIP was established in 1876, as a memorial of the late Mrs. Aurelia D. Hooker, of New Haven. It is assigned at graduation to that member of the class to which it is offered, who, having been connected with the School during at least two years of the course, and being of approved Christian character, has, in the judg-

ment of the Faculty, acquired such proficiency in theological studies as best to qualify him for the advantages offered by this foundation for the further prosecution of the same. The person to whom the scholarship is given receives the annual income (six hundred dollars) for two years after graduation, and is expected to pursue a course of theological study under the direction of the Faculty, either as a resident at the School, or, in case he may prefer to do so, in Europe or Palestine. The HOOKER FELLOWSHIP is offered to the classes graduating from the Divinity School in 1909 and in 1911.

A similar GRADUATE FELLOWSHIP yielding five hundred dollars, which has been established as a memorial of the late Mrs. Susan B. Dwight, of New Haven, and will afford to the student who shall receive it the same privileges for one year after graduation, is offered on the same conditions to the classes graduating from the Divinity School in 1910 and 1912.

The Yale Divinity School is a contributor to the schools of the American Institute of Archæology at Rome and Jerusalem. No examinations for entrance are required of the graduates of contributing institutions. A fellowship in each school is annually assigned, on the basis of competitive examination.

#### GRADUATE SCHOLARSHIPS

Scholarship aid for the pursuit of fourth-year studies in the Graduate class will, at the discretion of the Faculty, be offered to such members of the Senior class of this School, and to such graduates of other theological schools, as shall, in the judgment of the Faculty, give promise of special success in advanced theological study. Some equivalent service is required.

# DEPARTMENT OF MEDICINE (YALE MEDICAL SCHOOL)

## FACULTY

ARTHUR TWINING HADLEY, LL.D., PRESIDENT

HERBERT EUGENE SMITH, M.D., *Dean of the Medical School, and  
Professor of Chemistry*

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WILLIAM HENRY CARMALT, M.D., *Professor of the Principles and  
Practice of Surgery, Emeritus*

THOMAS HUBBARD RUSSELL, M.D., *Professor of Clinical Surgery, and  
Lecturer on Surgical Anatomy*

MAX MAILHOUSE, M.D., *Clinical Professor of Neurology*

OLIVER THOMAS OSBORNE, M.D., M.A., *Professor of Materia Medica  
and Therapeutics, and Clinical Professor of Medicine*

HENRY LAWRENCE SWAIN, M.D., *Clinical Professor of Laryngology  
and Otology*

ARTHUR NATHANIEL ALLING, M.D., *Clinical Professor of Ophthalmology*

HARRY BURR FERRIS, M.D., *E. K. Hunt Professor of Anatomy*

OTTO GUSTAF RAMSAY, M.D., *Professor of Obstetrics and Gynecology*

RALPH AUGUSTINE McDONNELL, M.D., *Clinical Professor of Derma-  
tology*

GEORGE BLUMER, M.D., *John Slade Ely Professor of the Theory and  
Practice of Medicine*

CHARLES JOSEPH BARTLETT, M.D., *Professor of Pathology*

JOSEPH MARSHALL FLINT, M.D., *Professor of the Principles and Prac-  
tice of Surgery*

YANDELL HENDERSON, PH.D., *Assistant Professor of Physiology*

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RUSSELL HENRY CHITTENDEN, PH.D., LL.D., SC.D., *Professor of  
Physiological Chemistry*

FRANK PELL UNDERHILL, PH.D., *Assistant Professor of Physiological  
Chemistry*

FRANCIS BACON, M.D., SC.D., *Lecturer on Medical Jurisprudence*

EDWARD KING ROOT, M.D., *Lecturer on Life Insurance Examinations*

WILLIAM GIBBONS DAGGETT, M.D., *Clinical Lecturer on Medicine*

EDWARD MICHAEL MCCABE, M.D., *Clinical Instructor in Ophthal-  
mology*



- WILLIAM HILL BEAN, M.D., *Instructor in Therapeutics*  
CHARLES DICKINSON PHELPS, M.D., *Instructor in Physical Diagnosis*  
LEONARD CUTLER SANFORD, M.D., *Instructor in Operative Surgery*  
WILLIAM SPRENGER, M.D., *Demonstrator of the Uses of X-Rays*  
ERNST HERMANN ARNOLD, M.D., *Instructor in Orthopedic Surgery*  
ALLEN ROSS DIEFENDORF, M.D., *Lecturer on Psychiatry*  
FREDERICK NOYES SPERRY, M.D., *Clinical Instructor in Laryngology  
and Otology*  
HARRY MERRIMAN STEELE, M.D., *Instructor in Pediatrics*  
LOUIS MICHAEL GOMPERTZ, M.D., *Clinical Instructor in Gastro-Intes-  
tinal Diseases*  
DWIGHT MILTON LEWIS, M.D., *Clinical Instructor in Medicine*  
CLARENCE GILMAN SPALDING, PH.B., *Demonstrator of Pharmacy*  
DAVID RUSSELL LYMAN, M.D., *Clinical Lecturer on Tuberculosis*  
ROSWELL PARKER ANGIER, PH.D. (*Assistant Professor of Psychology*),  
*Lecturer on the Physiology of the Special Senses*  
HAROLD SEARS ARNOLD, M.D., *Instructor in Pathology and Bacteriology*  
THOMAS VINCENT HYNES, M.D., *Clinical Instructor in Obstetrics*  
MARVIN MCRAE SCARBROUGH, M.D., *Instructor in Pharmacology*  
FRANK BILLINGS STANDISH, M.D., *Clinical Instructor in Medicine*  
CARLTON HOWARD MARYOTT, B.A., *Instructor in Chemistry*  
JAMES MORTIMER KENISTON, M.D., *Clinical Assistant in Psychiatry*  
EDWIN PARKER PITMAN, M.D., *Clinical Assistant in Gynecology*  
FLORENCE BINGHAM KINNE, M.A., *Laboratory Assistant in Pathology*  
HENRY FREDERICK KLENKE, M.D., *Clinical Assistant in Dermatology*  
ALFRED GOLDSTEIN NADLER, M.D., *Clinical Assistant in Dermatology*  
HARRY LITTLE WELCH, M.D., *Clinical Assistant in Gynecology*  
JOHN EDWARD LANE, M.D., *Clinical Assistant in Medicine*  
WILLIS HANFORD CROWE, M.D., *Clinical Assistant in Ophthalmology*  
WILLIS ELLIS HARTSHORN, M.D., *Clinical Assistant in Surgery*  
RICHARD FOSTER RAND, M.D., *Clinical Assistant in Gynecology and in  
Surgery.*  
THOMAS AUGUSTINE O'BRIEN, M.D., *Clinical Assistant in Neurology  
and in Laryngology*  
CARLE WILLIAM HENZE, M.D., *Clinical Assistant in Gynecology*  
RAYNHAM TOWNSHEND, M.D., *Assistant in the Anatomical Laboratory  
and Clinical Assistant in Surgery.*  
ROBERT GRAHAM TRACY, M.D., *Clinical Assistant in Surgery*

WALTER SIDDEERS LAY, M.D., *Clinical Assistant in Pediatrics*

ARTHUR SAMUEL MCQUEEN, M.D., *Clinical Assistant in Pediatrics*

BURTON ISAAC TOLLES, M.D., *Assistant in Anatomy*

FREDERICK GEORGE BECK, M.D., *Clinical Assistant in Gynecology*

ARCHIBALD CECIL HERBERT, M.D., *Clinical Assistant in Medicine*

LOUIS ADOLPH NOTKINS, M.D., *Clinical Assistant in Neurology*

SEYMOUR LEOPOLD SPIER, M.D., *Clinical Assistant in Surgery*

JOSEPH LEO GILMORE, M.D., *Clinical Assistant in Pediatrics*

JAMES FREDERICK ROGERS, M.D., *Assistant in Physical Diagnosis*

EUGENE MAURICE BLAKE, M.D., *Clinical Assistant in Ophthalmology  
and in Otology*

CHARLES EDWIN SANFORD, M.D., *Clinical Assistant in Medicine*

JOHN PATRICK CROWLEY, M.D., *Assistant Demonstrator of Pharmacy*

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HARRIET BENTON PHELPS, *Registrar of the Medical School, and Assistant in the Medical Library*

## GENERAL STATEMENT

### HISTORY

In the fall of 1810 a charter was granted to the President and Fellows of Yale College and the President and Fellows of the Connecticut Medical Society, authorizing them to unite according to the terms of certain "Articles of Union," before agreed upon, for the establishment of a medical seminary, to be styled the Medical Institution of Yale College. Two years later the School was organized, and in the fall of 1813 instruction was begun. The professors of the Faculty were appointed by the College Corporation from nominations by the Medical Society. Degrees were conferred by the College on the recommendation of the board of examiners, consisting of the members of the Faculty and an equal number appointed by the Medical Society. This dual government continued until 1884, when by an amicable arrangement with the Medical Society, the College authorities assumed entire control of the School.

The Medical School now constitutes the Medical Department of the University, and is governed by the Professors

of the Faculty of Medicine under the authority of the President and Fellows of the University.

In the early years the instruction consisted of didactic and clinical lectures and dissections during a short winter course. As time passed, changes in the relations between practitioners and students of medicine, and even greater changes in the art and science of medicine, demanded a different kind of instruction, and the course was altered from time to time to meet the varying conditions. In 1879 there had been established a graded course, extending through three years of eight months each and including considerable laboratory instruction. In 1896 the extension of the course to four years permitted a more complete and satisfactory grading of the studies which has formed the basis of the curriculum now in force.

#### **BUILDINGS AND EQUIPMENT**

The School owns and occupies four buildings, Medical Hall, the Laboratory Building, the Clinical Laboratory, and the University Clinic.

**MEDICAL HALL** contains the general lecture rooms, the museum, and laboratories of anatomy, histology, pathology, and bacteriology. The lecture rooms are provided with modern electric projection lanterns, and in other ways are well equipped for the lectures and recitations held in them. The laboratories are equipped with the necessary number of modern microscopes as well as with complete outfits for bacteriological research, and for the study of blood, sputum, and other objects of clinical interest. The collections of anatomy, pathology, and materia medica supply material for the class-room demonstrations, and for individual study by students in the laboratories.

The **LABORATORY BUILDING** contains the lecture rooms and laboratories of physiology and chemistry. The lecture rooms are well equipped for the special work carried on in them, and the laboratories are abundantly supplied with apparatus and materials for the class work as well as for research.

The UNIVERSITY CLINIC has been recently erected and equipped by the University at a cost of about one hundred thousand dollars. It is opposite the New Haven Hospital, and is a three-story building admirably arranged and fully equipped for the work carried on in it. The greater part of the first and second stories is occupied by the New Haven Dispensary. This portion consists of two large waiting rooms, and twenty-five consulting, examining, and operating rooms which are equipped for the special requirements of the different clinics. In the third story is a comfortably furnished dormitory for the use of students attending the out-patient obstetrical service. The building also contains an amphitheater and lecture room for general and clinical lectures in the practical branches.

The CLINICAL LABORATORY is situated near the University Clinic, and is fully equipped for research work and for the laboratory courses in experimental surgery and clinical medicine.

Aside from the general University endowment, the advantages of which the Medical School shares with the other Departments, the Medical School has a special endowment fund of somewhat over two hundred thousand dollars. This includes the Hunt and Ely memorial professorship endowments. The first was founded in 1896 by a bequest of twenty-five thousand dollars from Mrs. E. K. Hunt as an endowment of the Chair of Anatomy in memory of Ebenezer K. Hunt, M.D., a graduate of Yale College in 1833. In 1906 the School received a gift of fifty thousand dollars from an anonymous donor to endow the chair of Medicine in memory of John Slade Ely, M.D., Professor of the Theory and Practice of Medicine in the Medical Faculty from 1897 to 1906.

#### CLINICAL FACILITIES

The NEW HAVEN HOSPITAL, with a capacity of about 200 beds, is situated but a short distance from the Medical School buildings and offers abundant opportunity for

clinical instruction. The service is an active one, as the Hospital is the principal one in the city, which is a large manufacturing and railroad center. The Farnam Operating Theater is modern in all its equipments, and was planned with special reference to making the operations available for purposes of instruction to students. A Clinical Amphitheater has been added recently to the Hospital for the better accommodation of the medical clinics and affords the best facilities for the demonstration of cases, and of special methods of examination. The Maternity Building, which has been completed recently, is closely connected with the other hospital buildings and affords the most modern appliances for the obstetrical service.

The NEW HAVEN DISPENSARY occupies a part of the University Clinic. The service consists of about 20,000 consultations annually, and furnishes ample clinical facilities for the demonstration of disease processes, and is especially valuable in giving students an opportunity to see the ambulant types of disease. The service is divided into the following departments: Internal medicine; surgery; orthopedic surgery; ophthalmology; laryngology, otology and rhinology; neurology; psychiatry; gynecology and obstetrics, including an out-patient department; pediatrics; dermatology; and the X-Ray Laboratory. Besides the general clinics which are held in all of these departments, the Dispensary furnishes abundant material for the classes in physical diagnosis, and numerous courses of demonstrations to small groups of students. The Seniors participate in the regular work of all the clinics, to which they are appointed as assistants in rotation.

The STATE HOSPITAL FOR THE INSANE, situated at Middletown, accommodates about 2000 patients. By a recent arrangement the instruction in psychiatry will be combined with clinics at this Hospital. The large number of patients gives ample facilities for the demonstration for all forms of insanity, and allied ailments.

The GAYLORD FARM SANATORIUM, located at Wallingford, is devoted to the treatment of tuberculosis, and accommodates about 60 patients. During each year the Seniors attend a series of clinical demonstrations by Dr. Lyman and receive special instruction on the sanatorium treatment of this class of patients.

#### **LIBRARY FACILITIES**

The LIBRARIES—The University Library contains about 450,000 volumes and includes the Medical Library. The University subscribes annually for the most important of the French, German, English, and American journals. The Medical Library is an important part of the facilities of this School, as it gives the student ample opportunities of working in special lines. Medical students have the same privileges of consulting and drawing books as students in the other Departments of the University. Instruction in the use of the catalogue, and in the methods of using current literature, is given Senior students by one of the library staff.

#### **PREPARATION FOR MEDICAL STUDY**

The Faculty would urge those intending to find their life work in the profession of medicine to consider the advantages to be derived from pursuing a general college course before entering the Medical School. The course should include French, German, Physics, Biology, and Inorganic and Analytical Chemistry.

Attention is also called to the possibility of combining the College and Medical School courses. Such a combined course has been provided in this University by placing the studies comprising the first two years of the Medical School course among the elective studies offered students of Yale College. An Academical student, therefore, may pursue one or all of the studies required in the first two years of the Medical School course, and thus advance himself in his preparation for clinical studies while still retaining the benefits of the Academical training and associations.

Students who have completed the Sophomore year and who have pursued the required studies in Physics, Biology, and Chemistry, may matriculate as candidates for the medical degree, and thus be eligible for the M.D. in two years after receiving the B.A. Able students with a specially good preparation may successfully and satisfactorily follow this plan. Most students, however, will probably find it preferable to complete but one year of the medical curriculum during their Academical course. Students intending to pursue the combined course would do well to consult with the Dean of the Medical School, before entering college or very early in their college course.

## **ADMISSION**

### **MATRICULATION REQUIREMENTS**

Candidates for admission to the 97th Annual Session beginning in September, 1909, and thereafter, must present satisfactory testimonials of moral character from former instructors or physicians in good standing, and must qualify in the educational requirements in one of the following ways:

1. Candidates who have received degrees in Arts or Science from approved universities or colleges will be admitted on presenting their diplomas or other satisfactory testimonials.

2. Other candidates must present satisfactory evidence:

- (a) That they have complied with the entrance requirements of some collegiate institution of good standing or have passed equivalent examinations before some recognized examining board such as the College Entrance Examination Board.

- (b) That they have performed with credit the equivalent of at least two full years of work of collegiate grade of fifteen hours per week. Such evidence may be furnished by certificate from an institution of good standing.

3. Candidates who can not present the certificates indicated in paragraph 2 may present publications, records of

research work, or other special evidence of their fitness to pursue the study of medicine. Such candidates may be admitted, however, only by a special vote of the Medical Faculty in each case.

All candidates for admission must furnish evidence that they have a satisfactory preparation in Physics, General Inorganic Chemistry, and General Biology.

**MATRICULATION REQUIREMENTS FOR STUDENTS  
WHO ENTERED IN 1908**

The minimum entrance requirement for the session of 1908-09 was a certificate based:

(a) On examinations for admission to Yale College, the Sheffield Scientific School, or other approved academic institutions, or on examinations conducted by the College Entrance Examination Board. (b) On graduation from a course covering four years in an approved high school, academy, or preparatory school.

The certificates were required to cover six units in English Readings, Latin Grammar and Elementary Latin Prose, Physics and Algebra, and nine units in specified elective subjects. For a fuller statement of the former requirements see the University catalogue for 1907-08.

**ADMISSION TO ADVANCED STANDING**

Students who have studied one year in some other recognized medical institution may be admitted to the Second Year class, and those who have studied two years may be admitted to the Junior class, but students are not received from other schools into the Senior class. Students applying for advanced standing must meet the matriculation requirements, must have pursued studies reasonably equivalent to those already pursued by the class to which they seek admission, and must pass the examinations of the First Year for admission to the Second Year class, and of the First and Second Years for admission to the Junior class. These examinations may be taken in June with the class by applying to the Dean at least four weeks before Commencement, or they may be taken at the time of the autumn



examinations, just before the beginning of the school year in September. Graduates in Arts, Philosophy or Science, who have pursued studies in chemistry, physiology, anatomy, or histology during their undergraduate courses, may receive credit for such work as is the equivalent of the courses in these studies in the First year, and may fill out the number of hours required of First year students by pursuing certain advanced studies with the Second Year class, or by pursuing studies in the Graduate School.

### **TERMS AND VACATIONS**

The annual sessions of the School are divided into three terms, covering thirty-five weeks, exclusive of a vacation of three weeks at Christmas and a recess at Easter usually of one week.

The first term begins with the last Thursday in September, and continues twelve weeks. The second term begins on the third Wednesday after the close of the first term and continues twelve weeks. The third term is eleven weeks in length, ending with Commencement. (See Calendar.)

### **INSTRUCTION**

#### **METHODS**

The instruction in this School is conducted by recitations and lectures in the class-room, and by personal work in the laboratories and clinics.

The class-room work of the first and second years is chiefly by recitations from assigned readings, with which are combined frequent demonstrations and explanatory lectures. In the third and fourth years, lectures are more employed, but the instruction is still based for the most part on assigned readings in text-books.

The curriculum of the first two years contains a very large proportion of laboratory work which extends to the third and fourth years, but is largely replaced in the latter period by personal clinical work. The laboratories are thoroughly equipped for systematic and accurate work,

and such work is exacted from the student. In the clinical instruction less dependence is placed upon formal clinical lectures, and more upon personal instruction to small classes, and to individual students.

Advancement from one class to the next depends not only on the results of examinations but also on the records of the student's daily work as expressed in his term standing.

#### THE CURRICULUM FOR 1908-09

The curriculum of this School is graded to furnish in four years a systematic presentation of the various subjects of medical study. When a subject is pursued two years the course is a progressive one, in which the work of the second year is not a repetition of that of the first.

The arrangement of the curriculum is such that the student spends the first and second years on the fundamental branches, chemistry, physiology, anatomy, histology, pathology, and materia medica.

The third year he devotes chiefly to a systematic study of medicine, surgery, obstetrics, and pharmacology.

In the Senior year he continues the study of medicine and surgery and has a systematic presentation of the chief specialties in a series of recitations and lectures, combined with general clinics and section work.

#### SYNOPSIS OF THE CURRICULUM

*N. B. The number of hours means hours per week.*

##### FIRST YEAR

**ANATOMY** — *Recitations, Lectures, and Demonstrations*, Osteology, Arthrology, Myology, 3 hours throughout the year, Professor Ferris. *Laboratory, Dissections*, 15 hours second term, Professor Ferris, Dr. Tolles, and Dr. Townshend.

**HISTOLOGY** — *Recitations and illustrated Lectures*, 1 hour first and second terms, Professor Ferris. *Laboratory*, Microscopical technique and histology of normal tissues, 4 hours first and second terms, Professor Ferris, Dr. H. S. Arnold, and assistants.

**EMBRYOLOGY** — *Recitations and Lectures*, 2 hours third term, Professor Ferris. *Laboratory*, 4 hours third term, Professor Ferris, Dr. H. S. Arnold, and assistants.

**PHYSIOLOGY**—*Elementary Physiology, Lectures*, 1 hour throughout the year, Professor Chittenden; *Recitations*, 2 hours first term, 3 hours first half second term, Professor Henderson. *Physiological Chemistry, Lectures*, 3 hours second half-year, Professor Chittenden; *Laboratory*, 9 hours, Professor Underhill and Mr. Maryott.

**GENERAL CHEMISTRY**—*Recitations and experimental Demonstrations*. The elements and their compounds, 4 hours first term, 2 hours first half of second term, Professor Smith and Mr. Maryott. *Analytical Chemistry, Class-room*, 1 hour first term, Mr. Maryott. *Laboratory*, 12 hours first term, 9 hours first half of second term, Professor Smith and Mr. Maryott. *Theoretical and Physical Chemistry, Recitations and Demonstrations*, 2 hours second half-year, Mr. Maryott.

**ORGANIC CHEMISTRY**—*Recitations*, Constitution and properties of organic compounds, 3 hours second and third terms, Professor Smith.

**ANNUAL EXAMINATIONS**—(1) General Chemistry, including a laboratory examination at the end of the first term. (2) Organic Chemistry. (3) Physiology and Physiological Chemistry. (4) Anatomy. (5) Histology and Embryology.

#### SECOND YEAR

**ANATOMY**—Continued. *Recitations and Demonstrations*, Angeiology, Neurology, Splanchnology, Topographical Anatomy, 3 hours throughout the year, Professor Ferris. *Laboratory, Dissections*, 15 hours first or second term, Professor Ferris and Dr. Tolles.

**PHYSIOLOGY**—Finished. *Lectures and Recitations*, 1 hour first term, 2 hours, second and third terms, Professor Henderson, 2 hours first and second terms, Professor Angier. *Laboratory*, 4 hours throughout the year, Professor Henderson and Dr. Scarbrough.

**PHARMACY AND PHARMACOLOGY**—*Demonstrations* of pharmaceutical methods, 2 hours second half second term, Mr. Spalding. *Recitations and Demonstrations*, Classification of drugs, prescription writing, physiological action of drugs, 2 hours second and third terms, Dr. Scarbrough. *Laboratory*, Experimental demonstration of action of drugs and methods of studying them, 3 hours second and third terms, Professor Henderson and Dr. Scarbrough. *Lectures and Demonstrations* in toxicology, twenty lectures, third term, Professor Chittenden.

**PATHOLOGY**—*Recitations and Demonstrations*, General and special Pathology, 2 hours first term, 4 hours second and third terms, Professor Bartlett. *Laboratory*, Histology of morbid tissues, 6 hours second and third terms, Professor Bartlett and Dr. H. S. Arnold.

**BACTERIOLOGY**—*Recitations*, 2 hours first term, Professor Bartlett. *Laboratory*, Technique, preparation of media, pure cultures, etc., 9 hours first term, Professor Bartlett and Dr. H. S. Arnold.

**EXAMINATIONS**—(1) Anatomy. (2) Physiology. (3) Materia Medica. (4) Pathology. (5) Bacteriology.

## JUNIOR YEAR

PHARMACOLOGY—*Recitations and Lectures*, Action and therapeutic uses of drugs, 2 hours first and second terms, Professor Osborne.

THERAPEUTICS—*Lectures*, History of Medicine, physical therapy, climatology, dietetics, 1 hour third term, Professor Osborne.

PATHOLOGY—Autopsies, Professor Bartlett.

MEDICINE—*Recitations and Lectures*, 2 hours first term, 4 hours second term, and 3 hours third term, Professor Blumer. *Clinics*, General medical, New Haven Hospital, 2 hours, Professor Blumer and Dr. Daggett. University Clinic, daily, Professors Blumer and Osborne and Drs. Gompertz and Lewis. *Laboratory*, Clinical microscopy, 6 hours first term, Professor Blumer and Dr. Lewis. *Physical Diagnosis*, Systematic practical study of physical signs and methods of examination, 3 hours half a year, in sections, Dr. Phelps. *Neurology*, *Recitations*, 1 hour second and third terms, Professor Mailhouse. *Dermatology*, 1 hour second and third terms, Professor McDonnell.

SURGERY—*Recitations and Lectures*, 2 hours, Professor Flint. *Bandaging*, Practical work in sections, 1 hour third term, Dr. Hartshorn. *Surgical Anatomy*, *Lectures*, 1 hour first term, Professor Russell. *Clinics*, General surgical, 2 hours at the University Clinic, Professor Flint, 3 hours at the New Haven Hospital, Professor Flint.

OBSTETRICS—*Recitations and Lectures*, 2 hours throughout the year, Professor Ramsay. *Demonstrations* with the manikin, mechanism of labor, Dr. Hynes.

GYNECOLOGY—*Recitations*, 1 hour first, second and third terms, Professor Ramsay.

ANNUAL EXAMINATIONS—(1) Pharmacology. (2) Obstetrics and Gynecology. (3) Medicine. (4) Surgery.

## SENIOR YEAR

THERAPEUTICS—*Recitations and Lectures*, 1 hour throughout the year, Professor Osborne. *Clinics*, Applied therapeutics, with *Section work*, throughout the year, University Clinic, Professor Osborne.

OBSTETRICS—*Demonstrations* with the manikin and *Obstetric Surgery*, in sections, first term, Dr. Hynes. *Midwifery Clinic*, *Demonstrations*, and *Section work*, with reports of cases attended by students, Professor Ramsay and Dr. Hynes.

GYNECOLOGY—*Clinics*, *Lectures*, *Section work*, Diagnosis and treatment, throughout the year, University Clinic and New Haven Hospital, Professor Ramsay.

SURGERY—*Lectures*, special topics, Professor Flint. *Clinics*, General surgical, 2 hours throughout the year, University Clinic, Professor Flint. *Section work*, throughout the year, Professor Flint and assistants. *Ward Classes and Operations*, 6 hours throughout the year, New Haven Hospital, Professor Flint.

**OPERATIVE SURGERY**—*Recitations*, 2 hours first term, Dr. Sanford. *Section work*, Operations on the cadaver, second term, Dr. Sanford.

**GENITO-URINARY SURGERY**—*Recitations* and *Lectures*, 1 hour second and third terms, Professor Russell.

**ORTHOPEDIC SURGERY**—*Lectures* and *Section work*, throughout the year, University Clinic, Dr. E. H. Arnold.

**OPHTHALMOLOGY**—*Lectures*, 1 hour first term, Professor Alling. *Clinics* and *Section work*, throughout the year, University Clinic. Professor Alling and Dr. McCabe.

**LARYNGOLOGY, OTOTOLOGY, AND RHINOLOGY**—*Lectures*, 2 hours first term, 1 hour second term, Professor Swain. *Section work* and *Manikin Practice*, throughout the year, University Clinic, Dr. Sperry.

**MEDICINE**—*Lectures*, 2 hours throughout the year, Professor Blumer. *Clinics*, general, New Haven Hospital, 2 hours, Professor Blumer and Dr. Daggett. *Special* and *Section work*, daily throughout the year, University Clinic, Professors Blumer and Osborne, and assistants.

**DERMATOLOGY**—*Clinics*, *Lectures*, and *Demonstrations*, 1 hour throughout the year, University Clinic, Professor McDonnell.

**PEDIATRICS**—*Recitations*, 2 hours first term, Dr. Steele. *Section work*, throughout the year, University Clinic, Dr. Steele.

**NEUROLOGY**—University Clinic, *Section work* and *Special Clinics*, throughout the year, Professor Mailhouse; New Haven Hospital, *Clinics*, 1 hour second term, Professor Mailhouse.

**PSYCHIATRY**—*Recitations*, 1 hour first term, with *Clinics* at the State Hospital, Dr. Diefendorf.

**SANITARY SCIENCE**—*Lectures*, 1 hour second and third terms, Professor Smith.

**LIFE INSURANCE EXAMINATIONS**—*Four Lectures*, second term, Dr. Root.

**MEDICAL JURISPRUDENCE**—*Lectures*, 1 hour second term, Dr. Francis Bacon, Professors Smith and Bartlett, and Dr. Diefendorf.

**ANNUAL EXAMINATIONS**—(1) Therapeutics. In Medicine (2) Clinical Examination of Cases; (3) Medicine I (Psychiatry, Pediatrics, Neurology); (4) Medicine II (Dermatology, Sanitary Science, Medical Jurisprudence); (5) (Senior Surgery, Operative Surgery, Genito-urinary Surgery); (6) Special Surgery (Orthopedic Surgery, Otology and Rhino-laryngology, Ophthalmology); (7) A Thesis.

### CHEMISTRY

The instruction in this department is given by laboratory work, combined with recitations and explanatory lectures, very completely illustrated by experimental demonstrations and specimens.

The department has two large working laboratories fully equipped for analytical and physiological chemistry. In them each student is

supplied with a desk and ample apparatus for systematic and accurate experimental work. The lecture room is furnished with a projection lantern, abundant apparatus for demonstration, and a large chemical collection. The research laboratory is well equipped and is open to advanced students.

**GENERAL CHEMISTRY**—During the first half-year the instruction is given in a course of recitations and experimental demonstrations covering the reactions and characters of the more common elements and compounds. In the second half-year the time is devoted to a fuller presentation of theoretical chemistry and of physical chemistry.

**ORGANIC CHEMISTRY**—This subject is taught during the second and third terms in a course of recitations and experimental demonstrations. Much attention is devoted to the constitution and relations of the different classes of organic compounds, and many of the typical bodies are prepared before the class as demonstrations. The course includes also a special study of the compounds of physiological interest.

**ANALYTICAL CHEMISTRY**—*Qualitative Analysis* is taught so far as to enable the students to analyze a mixture of the salts of the common metals. The course is systematic and is well adapted to cultivate habits of observation and the analytical method of thought. In *Quantitative Analysis* each student makes a number of typical determinations by volumetric and gravimetric methods.

**PHYSIOLOGICAL AND CLINICAL CHEMISTRY**—Physiological Chemistry is taught in the chemical laboratories as a part of the course in physiology, and clinical chemistry as a part of the laboratory course in medicine of the Junior year.

Two examinations are held in this department, one in general chemistry, including analytical chemistry, and one in organic chemistry. The results of these examinations, together with the records of the student's practical work, determine his standing for the year.

### ANATOMY

**SYSTEMATIC ANATOMY**—The course in this subject is graded and extends through the first two years. The instruction is given by means of dissections, recitations, class and section demonstrations, and lectures illustrated by charts, models, wet and dry preparations, and lantern slides. The lectures are intended to be explanatory and supplemental and for the elucidation of the general principles of morphology. The laboratory is well equipped, and ample material, well preserved by embalming and refrigeration, is furnished. Each student is required to make a careful dissection of the three parts of the body at least once. At the completion of a part a quiz is held with each student, which, with the recitations and written examination at the end of the year, determines his standing.

**First Year**—The work of the first year is devoted to osteology, arthrology, and myology. Each student is furnished with a box containing a skeleton for home study. The study of the soft structures is prosecuted in the laboratory under constant supervision, and two parts at least must be dissected, occupying a period of about twelve weeks.

**Second Year**—The dissection of at least one part is required this year. The anatomy of the peritoneum, the thoracic and abdominal viscera, and of the eye and brain, are carefully demonstrated to the students in small groups. The study of surface form and topography in the cadaver and model is an important part of the work. The embryology of each organ is reviewed in connection with its structure, and the salient facts of comparative morphology, especially of the brain, alimentary, circulatory, and respiratory organs, are explained. During the second term a special course in the anatomy of the brain is given. The examination at the end of the year includes angiology, neurology, splanchnology, and topographical anatomy.

**HISTOLOGY**—Instruction in histology is given by recitations and lectures illustrated by charts, blackboard drawings, and lantern slides, but chiefly by laboratory work. The recitations and lectures precede and prepare for the better interpretation of the specimens in the laboratory. The laboratory is large, well lighted and equipped, and each student is furnished a microscope and locker containing a box with all necessary apparatus and reagents. First the elementary tissues and their morphological units are studied by fresh and unstained specimens as well as by stained ones, then the various organs are systematically taken up. The student prepares, stains, and mounts the specimens so far as is practicable, making drawings of each with explanatory notes. At the beginning of each laboratory exercise, the specimens for the day are demonstrated by an excellent electric projection apparatus, experience having shown this method of instruction to be very helpful. Systematic instruction is given in the methods of fixing, embedding, and sectioning tissues, and in the structure and functions of the various parts of the microscope and accessory optical appliances.

A practical and written examination is held at the end of the year covering the subjects of histology and the microscope and microscopical technology, which together with the recitations, laboratory work, and drawing books determines the student's standing.

Facilities are offered and assistance given to students who are making original investigations in connection with their theses.

**EMBRYOLOGY**—The method of instruction in this branch is similar to that in histology. The laboratory work consists of a study of the early development of the chick by surface views and serial sections, of a pig of ten millimeters in length and of the structure of the human decidua, placenta, and cord. The cabinet furnishes serial sections of

the human embryo which are used for reference. Congenital malformations and vestigial structures are considered and explained. Some attention is given to embryological technology and reconstructions. The examination is incorporated with that of histology and is of a similar nature.

**TOPOGRAPHICAL AND SURGICAL ANATOMY**—The Junior students receive instruction in the topographical and special surgical relationships of anatomy in a course of lectures, with demonstrations on the living model and the cadaver.

### PHYSIOLOGY

The work in this department is given during the first two years and is arranged in five courses.

(1) The introductory courses of the first year are elementary in character, but of such scope as to cover practically the whole field of human physiology. They are designed to afford a general acquaintance with the various aspects of physiology as a broad basis for the specialized courses which follow. The work consists of recitations supplemented by informal lectures and abundant demonstrations of the fundamental phenomena of physiological functions.

(2) The laboratory course in physiological chemistry, of a minimum of nine hours per week during the second half-year, is devoted to the study of the chemistry of the principal tissues and secretions, of the food substances and digestive processes, of respiration, and metabolism. A metabolism experiment extending over one week is also performed by each student upon himself. In connection with this course the instructor demonstrates many of the more important experiments upon secretion and the mechanism of its control in the submaxillary gland, stomach, pancreas, and kidney, and upon the alimentary canal, etc.

(3) The physiology of muscle and nerve, the circulation, and the mechanics and nervous control of respiration, are worked out in the laboratory during the first and second terms of the second year. After the student has acquired proficiency in the technique of graphic methods by experiments upon the frog, he is instructed in the methods of hæmodynamics. Each student then performs many of the more important experiments demonstrating the hydraulic principles and nervous control of the circulation.

Each student is assigned a topic to be studied in the original literature, and is required to present a report before the class. These reports are then discussed by the class under the guidance of the instructor. Topics which can not be conveniently treated in this manner are discussed by the instructor in informal lectures. The information gained by the various methods above indicated is reviewed and summarized in connection with assigned lessons in a text-book.



(4) The organs of the special senses and the psychic functions of the central nervous system are taken up in a special course in the Psychological Laboratory of Yale College during the first and second terms. The method of instruction consists of lectures, experiments, the reading of a text-book and assigned papers, and special demonstrations.

(5) During the third term the subject of pathological physiology is pursued by means of lectures, demonstrations, assigned lessons in a text-book, and reports by the students on special topics in the literature.

### PHARMACOLOGY AND THERAPEUTICS

Instruction in this department begins in the second term of the second year and extends through the remainder of that year and through the whole of the Junior and Senior years.

**PHARMACOLOGY**—Instruction in this subject begins during the second year in a laboratory course. Every student works out the physiologic action upon the circulation, respiration, nervous system, and excretory organs of, at least, one example of each of the principal classes of drugs. Demonstrations of some of the more difficult experiments are given by the instructor. The students are assigned topics in the original literature, and are required to present reviews before the class. Recitations are held upon the data obtained in the laboratory and upon assigned lessons in an elementary text-book. The study of this subject is continued by lectures, and by recitations from a text-book during the Junior year.

**PHARMACY**—This subject is begun in the latter half of the second year with a series of laboratory demonstrations and lectures by the Demonstrator of Pharmacy. A text-book on Pharmacy and Prescription, Writing is begun in this course, and a written examination is held as soon as the course is completed.

During the next six months each student, in turn, is required to spend at least fifty hours working under the instruction of the Assistant Demonstrator of Pharmacy in the prescription department of a city drug store. In this course each student is required to make various pharmacopœial preparations, compound prescriptions, and watch the preparation of all prescriptions that come to the pharmacy during his service. At the end of the course he must hand his note book, in which he has kept a careful record of all the work he has done in this course, to the Professor of the Department for inspection and criticism. Students are also encouraged to spend fifty more hours in the prescription department of some drug store or hospital, some time during the Junior year.

**MATERIA MEDICA**—The study of this subject is begun in the last term of the second year, and is taught by demonstrations of crude drugs

and their preparations, and by recitations from a text-book. The various methods and apparatus used in all local therapeutic measures are taught by text-book recitation, and by demonstration.

**PRESCRIPTION WRITING**—This is taught by text-book recitations in the last term of the second year, and by blackboard exercises during this term and throughout the Junior year. During the Senior year the students are appointed to act as clerks in the Dispensary clinics and write prescriptions under the supervision of the assistants.

**TOXICOLOGY**—This subject is chiefly studied in the course on pharmacology, but is specially treated in a course of lectures and demonstrations during the last term of the second year, and from the chemical side in the course in medical jurisprudence in the Senior year.

**THERAPEUTICS**—This subject is introduced in the latter part of the Junior year by a series of lectures on the history of medicine from the earliest times, particular attention being given to the gradual evolution of scientific rational treatment. Lectures are then given on electricity, massage, hydrotherapy, organotherapy, climatology, and dietetics. The subject is continued throughout the Senior year by lectures and recitations on the treatment and results of treatment of internal diseases. In the medical clinic the treatment and results of treatment are especially emphasized.

Written examinations are held at the end of the Second, Junior, and Senior years. Advancement depends on these examinations and the term standing.

### **PATHOLOGY**

Instruction in pathology is given in the Second and Junior years. The systematic course in the subject comes in the Second year. It consists of a recitation and lecture course combined with laboratory work. The first part of the course is devoted to general pathology, including the study of bacterial lesions and tumors. This is followed by a detailed review of the special pathology of the important organs. The class-room exercises are illustrated by specimens from the autopsies and the museum.

The laboratory has an excellent equipment, being abundantly supplied with modern microscopes, which are furnished each student, together with the requisite apparatus and reagents. The laboratory course in pathological histology is systematic, and includes a study of the more important pathological processes and morbid tissues. Each student prepares a large collection of typical specimens, which becomes his own property. During the second term of the second year, one exercise each week is devoted to the demonstration and study of gross pathological specimens. Particular attention is given to pathological technique. The various methods of preserving tissues both for gross

and microscopic purposes are emphasized. Material obtained from cases in the clinics, and from the more interesting autopsies of the year, is used by the class for gross and microscopic purposes. In the Junior year attendance at the morgue of the New Haven Hospital is required, and the members of the class assist in performing the autopsies.

**BACTERIOLOGY**—A laboratory course in this subject with recitations and lectures is given during the first term of the second year. This is preliminary to the study of the lesions produced by bacteria, which is taken up in the systematic course in pathology. Each student is provided with a desk and apparatus, and receives instruction in the principles and methods of sterilization, the preparation of the ordinary culture media, and the methods of growing, staining, and studying the various bacteria. Especial attention is given to such bacteriological methods as have been found of value in clinical diagnosis.

Facilities are offered for original research by this department both in the microscopical and bacteriological laboratories.

### OBSTETRICS AND GYNECOLOGY

The instruction in this department extends through the Junior and Senior years.

**THEORY AND PRACTICE OF OBSTETRICS**—The principles are thoroughly taught in a course of recitations and lectures extending through the Junior year.

**PRACTICAL OBSTETRICS**—The theoretical instruction is supplemented by manikin and clinical work. The various positions of the foetus *in utero* and the mechanism of labor are taught in a manikin course during the Junior year. This course is preparatory to the clinical work of the Senior year. The symptoms and signs of pregnancy are demonstrated in the midwifery clinic at the University Clinic. Each member of the graduating class is required to attend at least two cases of labor, and to present a written report on them. Provision is made for this service at the University Clinic, where lodgings are provided for students in attendance.

**OBSTETRIC SURGERY**—The various obstetrical operations are taught in the first half of the Senior year in a course of lectures and demonstrations on the manikin.

**GYNECOLOGY**—The principles of gynecology are taught in a course of recitations during the Junior year. This theoretical work is supplemented by clinical lectures in the Senior year, and by a course in diagnosis and treatment taken by the students in small sections as they are assigned to the clinics.

## MEDICINE

The instruction in the branches belonging to this department begins in the third term of the second year and continues through the Junior and Senior years.

**PATHOLOGICAL PHYSIOLOGY**—During the third term of the second year a course of lectures with demonstrations is given, discussing the relations of normal to pathological physiology, and covering substantially the ground gone over in Krehl's well known work on pathological physiology.

**THE PRINCIPLES AND PRACTICE OF MEDICINE**—During the Junior year systematic instruction in the Principles and Practice of Medicine is given. The student is made familiar with the important diseases by means of recitations, based on an approved text-book, supplemented by explanatory talks. At the same time he is taught the methods of examination in a course of practical instruction in physical diagnosis, supplemented by courses in history-taking and medical technics. He also attends general medical clinics at the University Clinic, and at the New Haven Hospital. During the first term there is a laboratory course in Clinical Microscopy, in which instruction is given in the chemical and microscopical methods employed in the examination of the blood, exudates, transudates, sputum, stomach contents, urine, and fæces.

During the Senior year text-book instruction is discarded. During the first term the more unusual diseases, not covered during the systematic course of the Junior year, are discussed in a weekly seminar, the students looking up literature on assigned subjects, and reading brief reports on the same to the class. Throughout the year one hour a week is devoted to so-called "case teaching," *i. e.*, training in the methods of reaching a diagnosis from the study of the history and physical findings in a given case. During the third term a short lantern slide course illustrating the diseases recognizable on sight, such as acromegaly, cretinism, etc., is given.

In the Hospital two medical clinics are held weekly and small groups of Senior students make daily rounds with the instructor. These clinics are devoted to the discussion of the diagnosis, prognosis, and treatment of medical cases which have been studied by the Senior students, who present them before the Senior and Junior classes under the guidance of the instructor.

At the University Clinic the Senior students attend two clinical lectures a week, but most of their time is devoted to section work. Each student serves a stated time in the medical clinic, during which he receives instruction in case taking, and is required to take histories of, examine, and prescribe for patients under the direction of an

instructor. Each student also serves a stated time in the clinical laboratory, where he is required to examine the urine, blood, sputum, stomach contents, etc., of the dispensary patients, this course supplementing the formal course in Clinical Microscopy of the Junior year.

**PHYSICAL DIAGNOSIS**—A practical course in the methods of physical examination is conducted at the University Clinic during the Junior year. The course is a systematic one, and the class is divided into small sections, thus permitting individual attention on the part of the instructors, and abundant practice by the student in the methods taught. This course is supplemented by a recitation course on the same subject, and by a demonstration course on Medical Technics, and clinical talks on case taking and methods of handling patients.

**NEUROLOGY**—In addition to the instruction in the anatomy of the nervous system, which is a part of the regular anatomy course, special work in the gross structure of the brain is given in the Second year, as is also special laboratory teaching in the pathology of the central nervous system. The systematic instruction in the diseases of the nervous system is given by a course of recitations from a text-book in the second and third terms of the Junior year. During the Senior year the instruction consists of clinical lectures, and section work at the New Haven Hospital and the University Clinic. Here special attention is paid to the demonstration of methods employed in the diagnosis and treatment of diseases of the nervous system, including electro-diagnosis and electro-therapeutics.

**PSYCHIATRY**—A course of recitations on insanity is given during the first term of the Senior year. These are combined with and illustrated by a series of clinics at the State Hospital for the Insane.

**PEDIATRICS**—The special instruction in children's diseases is given in a course of recitations during the first term of Senior year, and in the children's clinic at the University Clinic. In the section work attention is first given to the demonstration of the development of the normal child and to special methods of examination, and then to the important subject of infant feeding and to the study and treatment of pathological cases.

**DERMATOLOGY**—The instruction in this subject is begun with a course of recitations and lectures during the latter part of the Junior year, and is continued during the Senior year at the University Clinic, where a weekly clinic throughout the year affords a good opportunity to become familiar with the clinical appearances and treatment of the various diseases of the skin.

**SANITARY SCIENCE AND PUBLIC HYGIENE** receive attention in a course of lectures which include a study of the air, soil, water supply, sewage disposal, house construction and ventilation, personal and school hygiene, sanitary administration, and vital statistics.

**MEDICAL JURISPRUDENCE** is treated in a course of lectures especially from the standpoint of the medical practitioner. The student is provided with a printed syllabus to guide his readings in connection with the lectures.

### **SURGERY**

The instruction in surgery extends through the Junior and Senior years, and includes instruction in the recognized surgical specialties.

**THE PRINCIPLES AND PRACTICE OF SURGERY**—In the Junior year the class-room instruction consists of a systematic course of lectures and recitations on general surgery. Clinical instruction is also begun at this time with attendance on the surgical clinics and operations at the Hospital and at the University Clinic, where the Junior students also serve in sections as clerks and dressers.

In the Senior year, instruction in general surgery is continued in lectures on special topics during the second half-year, but the major part of the instruction is clinical. At the University Clinic, the Seniors are assigned to the several surgical services in turn to act as assistants. In performing their duties as dressers and general assistants they have an excellent opportunity to become familiar with the practices of modern aseptic methods. Patients needing attention at their home are assigned to students, who are required as a part of their regular duties to visit them and to make full reports concerning them.

Clinics and ward classes are regularly held during the year at the New Haven Hospital. In them the students are shown selected cases during their whole stay in the Hospital, and are afforded an opportunity of studying the causes which necessitate operations, where such are necessary, of seeing the operations, and of observing the results of treatment.

**OPERATIVE SURGERY**—The instruction in this subject extends through the first half of the Senior year. The first term is devoted to recitations and lectures, all of the more important operations of general surgery being studied in detail. In the second half the class is divided into sections, which perform, under the guidance of the instructor, as many operations as can be conveniently executed on the cadaver. Some few selected operations will be performed by the instructor as demonstrations before the whole class.

**BANDAGING**—The art of applying bandages is taught during the third term of the Junior year in a practical course, which includes all the more useful methods.

**SURGICAL PATHOLOGY**—Students will be given an opportunity of becoming familiar with the gross and microscopic appearance of specimens obtained from operations. These exercises will be held either in connection with the clinics or at special hours in the surgical laboratory.

**ORTHOPEDIC SURGERY** is taught in the Senior year by section work in the clinic and by lectures on the etiology, symptomatology, diagnosis, and prognosis of deformities. In the discussion of treatment, special attention is paid to mechano-therapy (massage and gymnastics), mechanical appliances (bandages, casts, etc.), and orthopedic apparatus, and to operative procedures.

**GENITO-URINARY SURGERY**—The special instruction in this subject is given in a course of recitations, with demonstrations of the instruments and appliances used in treatment. The clinical instruction is included in the work of the general surgical clinic.

**OPHTHALMOLOGY**—The instruction in this department is given in the Senior year. It consists in a systematic course of lectures and recitations, with a practical demonstration of the methods used in the examination of the eye.

During the year attendance is required in the Dispensary eye clinic, and the students in sections have an opportunity to serve as assistants and thus acquire facility in diagnosis and experience in treatment, including the use of the ophthalmoscope and the correction of errors of refraction and motility. They are also invited to witness operations at the New Haven Hospital. Each student is required to make an examination of a number of typical cases and to present reports of them before the class.

**LARYNGOLOGY, OTOLOGY, AND RHINOLOGY**—The didactic instruction in these subjects is given in a course of lectures and recitations during the first and second terms of Senior year, and by section work in the clinic.

The section work begins with a manikin course on the technique of examinations of the ear, nose, and throat, after which the students receive individual instruction in the examination of patients and the simpler routine methods of treatment. In their work in the clinic they gain facility and experience in these procedures and have the opportunity to see all the usual operations of these specialties.

#### **REQUIREMENTS FOR ADVANCEMENT**

Students are advanced from one class to the next by a vote of the Faculty, based on their standing in the examinations, and on the record of their work for the year.

The annual examinations are held in June in the studies of each year, and are open to students of the School and to candidates for admission to advanced standing. The subjects of the examinations of each class are fully shown in the statement of the curriculum. Examinations are also held just before the opening of the School year in Septem-

ber, in the studies of the First, Second, and Junior years. These autumn examinations are open only to students conditioned in June, and to candidates for admission to advanced standing. They are optional, and a fee is required for admission to them.

#### REQUIREMENTS FOR A DEGREE

To be eligible for the degree of Doctor of Medicine, every candidate must fulfill the following conditions:

I. He must be at least twenty-one years of age, and must sustain a good reputation for moral character.

II. He must have pursued medical studies for four years, and have been a student in this School for at least two years. If he has not pursued the four years' curriculum in this School, he must have taken such studies in some other recognized institution as are equivalent to the remainder of the full term of study.

III. He must have passed, to the satisfaction of the Faculty, the prescribed examinations of the course, and must have presented a satisfactory thesis on some subject relating to medicine. The thesis should be presented to the Dean on the third Wednesday before Commencement.

#### HONORS AND PRIZES

The degree of Doctor of Medicine *cum laude* will be conferred on students whose examinations and school work show unusual merit.

The CAMPBELL GOLD MEDAL is a memorial of James Campbell, M.D., Professor of Diseases of Women and Children 1886-99, and is awarded to that member of the graduating class who secures the highest rank in the examinations of the course.

The KEESE PRIZE—The income of the fund for the Keese Prize, a memorial of Hobart Keese, M.D., of the class of 1855, amounting to about one hundred and twenty dollars annually, is awarded by the Faculty to that member of the graduating class who presents the best thesis.

Any of these honors may be withheld at the option of the Faculty.



**FEES AND EXPENSES****FIRST YEAR :**

Matriculation (paid but once),	\$ 5.00
Tuition,	150.00
Practical Anatomy (including instruction and material),	10.00

**SECOND YEAR :**

Tuition,	\$150.00
Practical Anatomy (including instruction and material),	5.00

**JUNIOR YEAR :**

Tuition,	\$150.00
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**SENIOR YEAR :**

Tuition,	\$150.00
Graduation,	10.00

A rental fee of three dollars for the use of a microscope is charged in the laboratory courses of the First and Second years. Students may, however, supply their own microscopes, in which case this fee is remitted. A fee of three dollars is also required for the out-patient obstetrical course of the Senior year.

Laboratory deposits are required as follows: First year, Chemical Laboratory, five dollars; Histology Laboratory, one dollar; Second year, Pathology Laboratory, two dollars; Junior year, Clinical Laboratory, two dollars. These deposits are to cover the cost of apparatus broken by the student, and any excess above such breakage will be returned at the end of the course.

*These fees give entrance to all the instruction in the School, including not only the lectures and quizzes but the practical courses in all departments. The curriculum does not need to be supplemented by private quiz-classes.*

The matriculation fee is payable to the Dean on admission to the School. The tuition fees are payable in three installments of fifty dollars each, which are due on October 15, February 1, and April 15. Fees are payable to the University Treasurer on or before the dates specified. If not then paid they will bear interest from the dates when due, and must be paid to the Dean. The graduation fee is payable to the Dean three weeks before Commencement.

Students who do not pay in advance can continue their studies for the year by giving an endorsed note satisfactory to the Dean. No degrees can be conferred, nor any certificate of attendance, nor examination furnished, until all bills due the University are paid.

Students will be assisted in finding board and lodging by the Janitor of Medical Hall, Mr. William Blackwood, 148 York St. Prices range from five dollars a week upwards.

### **GRADUATE AND SPECIAL STUDENTS NOT CANDIDATES FOR A DEGREE**

The instruction here offered to graduates in medicine is intended to meet the requirements of two classes of students: first, those who wish to review or supplement their knowledge of the regular studies of the medical curriculum, as taught in this School; and second, those who wish to fit themselves in special lines of medical work, as for the duties of a Medical Examiner or Public Health Officer.

SPECIAL STUDENTS are not taken in the practical branches of medicine, but the general studies of the course are open to such persons as may wish to pursue them, if by their previous studies they are prepared to profit by the instruction. Special courses may also be arranged in Anatomy, Physiology, Pathology, Bacteriology, Experimental Toxicology and Medico-legal Examination, Sanitary Analysis, including the analysis of food, water, sewage, etc., and in the special laboratory methods of Medical and Surgical Diagnosis. The charges for instruction will depend on the courses taken, and can be ascertained for any particular line of study by applying to the Dean.

For further information, address Professor HERBERT E. SMITH, Dean. Office hours from 9.00 to 11.00 A. M., Room No. 25, Medical School, 150 York St.

# DEPARTMENT OF LAW (YALE LAW SCHOOL)

## OFFICERS

### FACULTY

ARTHUR TWINING HADLEY, LL.D., PRESIDENT

HENRY WADE ROGERS, LL.D., *Dean, and Professor of Equity and Corporations*

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HON. SIMON EBEN BALDWIN, LL.D., *Professor of American Constitutional and Private International Law*

THEODORE SALISBURY WOOLSEY, LL.D., *Professor of International Law*

HON. SAMUEL OSCAR PRENTICE, LL.B., M.A., *Professor of Pleading*

HON. EDWIN BAKER GAGER, M.A., *Professor of General Jurisprudence, Mortgages, and the Law of Public Service Companies*

JOHN KIMBERLY BEACH, LL.B., M.A., *Edward J. Phelps Professor of Mercantile Law and Admiralty Jurisprudence*

GEORGE DUTTON WATROUS, D.C.L., *Professor of Torts*

EDWARD VILETTE RAYNOLDS, D.C.L., *Professor of Comparative Law*

JOHN WURTS, M.A., M.L., *LaFayette S. Foster Professor of the English Common Law*

GEORGE EMERSON BEERS, M.L., M.A., *Assistant Professor of Elementary Law and Real Property*

ARTHUR LINTON CORBIN, B.A., LL.B., *Assistant Professor of Contracts*

GEORGE ZAHM, M.L., *Assistant Professor of Mercantile Law and Insurance*

CHARLES PHINEAS SHERMAN, D.C.L., *Assistant Professor of Roman Law, and Librarian*

JOHN WARREN EDGERTON, M.A., LL.B., *Instructor in Mercantile Law, and Secretary of the Faculty*

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### SPECIAL LECTURERS AND INSTRUCTORS

HON. DAVID JOSIAH BREWER, LL.D., *William L. Storrs Lecturer*

HON. JOHN HOYT PERRY, LL.B., M.A., *Lecturer on Parliamentary Law.*

THOMAS THACHER, LL.D., *Lecturer on Corporations*

JAMES MULFORD TOWNSEND, B.A., LL.B., *Lecturer on Transfer of Monetary Securities*

CYRUS LARUE MUNSON, LL.B., M.A., *Lecturer on General Legal Practice*

JAMES HENRY WEBB, B.S., LL.B., *Instructor in Criminal Procedure and Criminal Law*

ROGER FOSTER, LL.B., M.A., *Lecturer on Federal Jurisprudence*

HON. MACGRANE COXE, LL.B., M.A., *Lecturer on Bankruptcy*

HON. EPAPHRODITUS PECK, LL.B., *Instructor in Evidence, Civil Procedure, and Domestic Relations*

LEONARD MAYHEW DAGGETT, B.A., LL.B., *Instructor in Wills*

ROBERT CLARK MORRIS, D.C.L., *Lecturer on International Arbitration*

JAMES EVERETT WHEELER, B.A., LL.B., *Lecturer on Looking up the Law*

EDWARD AVERY HARRIMAN, B.A., LL.B., *Instructor in Comparative Administrative Law*

JOHN WESLEY WETZEL, PH.B. (*Assistant Professor of Public Speaking in the Academical Department*), *Instructor in Public Speaking*

ANDREW TEW BIERKAN, D.C.L., *Instructor in Commercial Accounts*

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WILLIAM COOKE BEERS, PH.B., *Registrar*

CHARLES VERNON PORTER, JR., *Assistant Registrar*

### YALE LAW SCHOOL

The Yale catalogue for 1824 contained a list of law students, although no announcement was made concerning the course of instruction. The catalogue for 1826 described the work of the Law School for the first time. While the work of the School has been carried on since 1824, no degrees were conferred until 1843.

The law course, from the founding of the School down to 1896, was one of two years. It was then extended to three years. The graduate course was established in 1876. The Yale Law School was the first law school in America or in England to establish a course leading to the degree of Doctor of Civil Law.

### PURPOSE OF THE SCHOOL

It is the aim of the School to give to all students in its regular undergraduate course a thorough acquaintance with the general principles and rules of American law, so

as to fit them for the Bar of any State ; to extend to those who do not propose to become practicing lawyers but wish to pursue some particular branches of legal or political knowledge, such assistance as they may desire ; and to offer to advanced students further instruction in all that belongs to law as a science in its widest sense. Such instruction is given in an undergraduate course, a graduate course, and special courses.

#### ACADEMIC YEAR

The Academic year 1908-09 began on Thursday, September 24, 1908, and will end on Wednesday, June 30, 1909.

There will be a recess from Wednesday, December 16, 1908, to Wednesday, January 6, 1909 ; and also from 1.00 P. M. Wednesday, March 31, 1909, to 8.00 A. M. Thursday, April 15, 1909.

Class exercises are suspended on Thanksgiving day (the recess begins Wednesday at 1.00 P. M. and ends Friday at 8.00 A. M.) and on the day following Memorial day.

#### ATTENDANCE

All students, whether candidates for a degree or special students, are required to be in actual attendance. The work of the Law School cannot be done *in absentia*, nor satisfactorily carried by students who are irregular in their attendance upon the exercises of the Department. Academic standing will be forfeited and registration cancelled whenever a student becomes so irregular in his attendance as to satisfy the Faculty that it is unwise for him to continue his connection with the School.

#### SYSTEM OF INSTRUCTION

Law has been taught in the law schools of the United States by three distinct methods, by lectures, by text-book, and by cases. The Yale Law School does not adopt any one of these to the exclusion of the others. Experience has seemed to indicate that the best results are attained by a combination of the three methods.

It is the conviction of the Faculty of Law, as well as the tradition of the University, that definite and perma-

nent impressions concerning the principles and rules of legal science are best acquired by the study of standard text-books and the careful analysis of leading cases, followed by the examinations and explanations of the recitation room. Hence, although certain subjects are separately taught by lectures, either because the want of proper manuals, or the constant and rapid advance of learning, or economy of time, requires the adoption of that method, care is taken that the same topics as far as practicable shall be covered by recitation work in connection with the wider branches of the law to which they belong.

The recitation hours, however, are only in part devoted to questioning the student. While this is done with sufficient thoroughness to hold him up to his work of preparation, matters not fully treated in the text-book used or cases to be analyzed are presented at greater length; ample opportunity is also afforded for a free colloquial discussion of the subject of the lesson and for the presentation and solution of the difficulties which he may have encountered in his private study. In this manner each student is brought into personal communication with the instructor in reference to his daily work and, as far as practicable, receives the benefits which would be obtained if he were placed under the individual instruction of his professor.

#### INSTRUCTION IN OTHER DEPARTMENTS OF THE UNIVERSITY

The share of the School in the general advantages of the University gives the students many opportunities of broadening their views and acquiring knowledge in regard to matters outside of their strictly professional work. They may, on application to the Dean, obtain permission to be present at one or more of the special courses of instruction in the Department of Philosophy and the Arts, or the lectures on Anatomy, Insanity, etc., in the Medical School, on payment of a moderate fee.

**THE WILLIAM L. STORRS LECTURESHIP**

In 1889 the Misses E. T. and M. A. Robinson of Hartford established a Lectureship in the Law School in memory of William Lucius Storrs. Judge Storrs was a Professor in the Law School and Chief Justice of the Supreme Court of Connecticut.

A course of five or six lectures is given annually on this foundation. The course is open to graduate or undergraduate students alike.

In the year 1908-09 the William L. Storrs Lectures will be delivered by Honorable David J. Brewer, LL.D., Associate Justice of the Supreme Court of the United States, on "The Police Power."

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**UNDERGRADUATE COURSE**

The Undergraduate course extends through three years of nine months each. It is mainly devoted to the practical side of legal education, but also gives an introduction to the general ideas and sources of Jurisprudence. In the opinion of the Faculty the progress of the student in the study of the law in its different branches is very much facilitated by a previous examination of those branches collectively and with reference to their relations to each other. The undergraduate course is arranged with a view to acquainting the student, at the beginning of his study, with the nature and scope of the science of the law. The course is designed to give him a knowledge of the elementary principles and doctrines of the law exhibited in their logical and practical connections with each other. Thus prepared, he proceeds to study more in detail the several branches of the law.

The undergraduate course leads either to the degree of Bachelor of Laws, or to that of Bachelor of Civil Law. The same amount of work is required for each of these degrees, but applicants for the latter degree are required to take work in Roman Law not required for the former degree, and are permitted, upon consultation with the Faculty, to

substitute certain studies in Political Science for certain of the law subjects.

A candidate for the degree of Bachelor of Laws must pass examinations upon all the required subjects of the first two years of the undergraduate course, and upon seven hours of required and eight hours of elective work in the third year.

#### DIRECTIONS TO CANDIDATES FOR ADMISSION

An applicant for admission to the Law School must present to the Dean, at his office in Hendrie Hall, on a blank which will be furnished for the purpose, formal application for admission. It is essential, prior to making this application, that the applicant should pay to the Treasurer of the University, at his office in Woodbridge Hall, a registration fee of ten dollars, the receipt for which must be exhibited at the time application for admission is made. This fee is not additional to the charge for tuition, but will be credited on the bill of the first term.

An examination fee of ten dollars, which fee is additional to the charge for tuition and must be paid to the Treasurer of the University in advance of obtaining permission to take entrance examinations, is required in the following cases :

1. When the applicant is obliged to take an entrance examination because unable to present a diploma from some approved College or Scientific School, or a certificate from an institution of like character certifying to the fact that he has performed with credit the equivalent of at least two years of work, of collegiate grade, of fifteen hours per week.

2. When application for admission to advanced standing is made, and it is necessary to take examination on law subjects. A student who brings credits from a school which is a member of the Association of American Law Schools may be admitted to advanced standing without examination on law subjects for which the credits have been obtained.



On presentation to the Treasurer of the University of a certificate signed by the Dean showing that an applicant has failed to pass the entrance examinations, the money paid as a registration fee, but not the money paid as an examination fee, will be refunded.

#### ADMISSION TO UNDERGRADUATE COURSE

It is important for law students as a class to have the maturity, culture, and ethical ideals for which an American college education stands. All those who are able to complete a college course before entering the Law School are advised to do so; and if a college makes provision for the effective teaching of subjects contained in the Yale Law School course itself, credit will be given to students here for work which they have previously done in those subjects.

Persons wishing to enter the undergraduate course must register prior to the first day of November.

**ADMISSION TO THE FIRST-YEAR CLASS.** Persons wishing to be admitted to the First-Year class as candidates for the degree of Bachelor of Laws or for the degree of Bachelor of Civil Law must present satisfactory testimonials of good moral character.

The persons named below will be admitted without examination upon producing their diplomas or certificates :

1. Graduates from an approved college or scientific school.
2. Persons who present a certificate from an approved college or scientific school showing that they have performed with credit the equivalent of at least two full years of work, of collegiate grade, of fifteen hours per week.

Candidates who have not attended institutions able to give this certificate, but who have otherwise fitted themselves for the study of the law by work of corresponding grade, are admitted on passing the prescribed examination. The examination will include :

1. Questions on the college entrance requirements included in the schedule which appears on pages 92, 93, subject to the modification noted below in the English Literature Requirements, or their equivalent, unless the candidate can present evidence that he has already passed such a test.

2. Questions which will call for attainments such as might fairly be expected to result from not less than two full years of class-room work covering 15 hours per week under competent instructors, on subjects selected from the following lists :

History, Ancient, Medieval, or Modern ; studied in a way to involve knowledge of constitutional principles and social movements.

Advanced studies in some language or languages, ancient or modern.

Rhetoric, Literary Criticism, or History of Literature.

Logic, Psychology, Ethics, or History of Philosophy.

Advanced Mathematics.

Physics, Chemistry, or Natural Science ; studied in such a manner as to be theoretical as well as descriptive.

Physiography, Commercial Geography, or Political Economy.

The candidate must offer subjects from at least three of these groups. With this restriction, the selection of subjects may be made by each applicant at his option, provided written notice of his selection is given by him to the Secretary of the Faculty of the Law Department three weeks before the opening day of the examinations.

For the class entering in 1909 the requirements in English Literature A will be : Shakespeare's *The Merchant of Venice* and *Julius Cæsar* ; Bunyan's *The Pilgrim's Progress, Part I* ; The Sir Roger de Coverley Papers in *The Spectator* ; Scott's *The Lady of the Lake* and *Ivanhoe* ; Irving's *Sketch Book* ; Macaulay's *Lays of Ancient Rome* ; Tennyson's *Gareth and Lynette, Lancelot and Elaine*, and *The Passing of Arthur* ; George Eliot's *Silas Marner*.

For the class entering in 1910 : Shakespeare's *The Merchant of Venice* and *Julius Cæsar* ; The Sir Roger de Coverley Papers in *The Spectator* ; Franklin's *Autobiography* ; Scott's *The Lady of the Lake* and *Ivanhoe* ; Irving's *Sketch Book* ; Macaulay's *Lays of Ancient Rome* ; Tennyson's *Gareth and Lynette, Lancelot and Elaine*, and *The Passing of Arthur* ; George Eliot's *Silas Marner*.

For the class entering in 1911 : Shakespeare's *The Merchant of Venice* and *Julius Cæsar* ; The Sir Roger de Coverley Papers in *The Spectator* ; Goldsmith's *The Vicar of Wakefield* ; Scott's *The Lady of the Lake* and *Ivanhoe* ; Hawthorne's *House of Seven Gables* ; Macaulay's *Lays of Ancient Rome* ; Tennyson's *Gareth and Lynette, Lancelot and Elaine*, and *The Passing of Arthur* ; George Eliot's *Silas Marner*.

The requirements in English Literature B will be :

In 1909, 1910, and 1911 : Shakespeare's *Macbeth* ; Milton's *Lycidas, Comus, L'Allegro*, and *Il Penseroso* ; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration* ; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

**ADMISSION TO ADVANCED STANDING.** All applicants must meet the educational requirement specified for admission to the First-Year class. Persons who have pursued their studies for one or more years in a Law School belonging to the Association of American Law Schools, or in one which in the opinion of the Dean is of substantially equal standing, will be admitted upon certificate from such school without examination upon the subjects required for admission to the school from which they come, but will be required to pass examination in any other subjects required for admission to this School. Those who present certificates from a Law School above described showing that they have passed satisfactory examinations in law studies there pursued, may be excused from further examination in those studies, and will be classed accordingly; but students so admitted to the Second-Year or Third-Year class, who have not taken other topics previously pursued by such class, must pass examinations on such topics, at or before the close of the year, as the Dean may in each case decide.

Graduates of approved Law Schools and Attorneys at Law who have been admitted to the Bar after such preliminary or final examinations as attest their proper preparation for the profession, may be allowed to enter without examination, and their class rating will be determined upon consideration of the studies they have pursued and the time they have given to legal study.

**ADMISSION OF SPECIAL STUDENTS.** Persons who do not desire to pursue the regular work of the School, and those whose preliminary education is not sufficiently extended to justify their admission as candidates for a degree but who satisfy the Dean that they are qualified to study certain branches of the law, may be admitted without examination as special students. Special studies may be taken by students who desire some acquaintance with law as a preparation for business pursuits, and also by those who, not intending to engage in active business, desire to

acquire an enlarged acquaintance with our political and legal systems and the rules by which they are governed.

Any special student who has been enrolled as such for not less than one year, and who either at this School, or elsewhere, or partly at this School, and partly elsewhere, has pursued, to the satisfaction of his instructors, all the branches of law study required in this School for those passing to the third year in regular course, may be admitted to the examinations of the third year students, provided he has also previously fulfilled all conditions prescribed for entrance to the First-Year class; and in such case, if he should successfully pass such examinations, may be presented for the degree of LL.B.

**TIME AND PLACE OF EXAMINATIONS FOR ADMISSION.** In 1909 examinations in New Haven for admission to the First-Year class will be held at Hendrie Hall on Thursday, July 1 (the day after Commencement), and on Monday, September 27 (three days before the opening of the Academic year). The examinations begin at 9.00 A. M. and those who desire to be examined must be in attendance at the opening.

Examinations outside New Haven for admission to Yale will be held at 8.30 A. M., beginning on July 1, 1909, at the following places mentioned on pages 90, 91.

Applicants for admission to the First-Year class (but not to higher classes) may arrange to take at any of the places named so much of the examination as relates to the College entrance requirements. But those who propose to take the examination elsewhere than at New Haven should communicate their intention to the Secretary of the Law Faculty before June 1. A fee of five dollars (payable at the opening of the session) is charged for admission to examinations outside of New Haven.

Examinations for admission to advanced standing will be held in the Law School Building on Monday, Tuesday, and Wednesday, September 27, 28, and 29, 1909. Persons intending to take the examination for advanced standing

will find it necessary to be present on each of the days named.

#### LAW STUDIES COMBINED WITH THOSE OF OTHER DEPARTMENTS.

Students in the Academical Department of Yale University may so combine their work in that Department with the work of the Law School as to obtain the degree in Arts and in Law in six years. Students in the Junior year in the Academical Department may elect three hours of class-room work in the Law School, and in their Senior year may elect eleven hours of such work, thus obtaining a credit of fourteen hours on the sixty hours required for the degree in Arts, and on the forty-five hours required for the degree in Law. Students who obtain this credit while in the Academical Department are enabled to complete the Law School course in two additional years.

The course in the Law School which is open to Academical Juniors and counts on both the degree in Arts and in Law is that on *Elementary Law*. The courses open to Academical Seniors which likewise count on both degrees are as follows: *American Constitutional Law*; *Contracts*; *Evidence*; *International Law*; and *Torts*. Academical students must have completed the course in *Elementary Law* before they enter upon the study of other law courses. The following additional law subjects are open to Academical Seniors, although they can be counted only on the degree in Law: *Common Law Pleading*; *Criminal Law*; and the *Study of Cases*.

The course in *Elementary Law* above mentioned includes not only the *Elementary Law* course described below in the Program of Undergraduate Instruction but a special course in the *Law of Contracts*.

The course in *Mining Law* is open to students in the Sheffield Scientific School who are studying Engineering and who present to the Dean of the Law School the written consent of the Director of the Scientific School to their registration for the course.

The course in *American Constitutional Law* is open to students in the Divinity School who present to the Dean of the Law School the written consent of the Dean of the Divinity School to their registration for this course.

Graduates of approved colleges who have taken while in college what amounts to not less than five hours a week of strictly legal studies during an entire college year, and have passed a creditable examination in such studies at such college, may, so far as such studies form part of the regular First-Year curriculum, substitute for them certain courses of the Second-Year curriculum; and, in such case, during their second year may take some of the courses offered in the Third-Year curriculum; thus becoming enabled to take, if they desire, during the Second and Third years, all the courses offered in those years instead of being restricted to an election between them. Or, if they desire and feel able to do the work which would be thus required, they may register provisionally in the Second-Year class and be advanced from that in the regular course into the Third-Year class in case they pass, at the close of the Second year, examinations both on their Second-Year work and on such studies of the First year as were not covered by them while in college, taking a high stand in both.

#### MASTER OF ARTS DEGREE

Bachelors of Arts of Yale College, and Bachelors of Arts of other colleges whose course of study is equivalent to that of Yale College, may, while pursuing their Law School studies, obtain the degree of Master of Arts of Yale University. Students of the Law School may, on paying the regular fees to the Graduate School for the courses taken, take courses in the Graduate School which do not count for the degree in Law and may have these courses count towards the attainment of the degree of Master of Arts.

## PROGRAM OF UNDERGRADUATE INSTRUCTION

The number of hours stated, when not otherwise specified, means hours of recitations or lectures each week throughout the year.

## FIRST YEAR.

Professor BALDWIN :—

*American Law.* 8 lectures in 1st half-year.

The course gives an outline sketch of the sources, divisions, and character of the law of the States and the United States, both substantive and adjective.

Professor WURTS :—

*Elementary Law.* 3 hrs. to end of calendar year.

The course is designed to introduce the student to underlying principles and to prepare him for their application.

Robinson's *Elementary Law*, and Lectures.

Mr. EDGERTON :—

*Agency.* 2 hrs. 2d half-year.

The course treats of law of principal and agent, their mutual rights and liabilities, and those in favor of and against third persons, in contract and in tort.

Mecham's *Agency*, and *Cases*.

Mr. EDGERTON :—

*Bailments and Carriers.* 2 hrs. 2d half-year.

A study of the different classifications of bailments, and of the rights, duties, and liabilities of the parties to the various transactions, both *inter se* and as to third persons.

Goddard's *Bailments and Carriers*, and *Cases*.

Professor PRENTICE :—

*Common Law Pleading.* 1 hr.

The course considers theory and principles of the common law system of pleading as it now exists, and attempts to bring practical application of these principles within comprehension of the student.

Heard on *Civil Pleading*, and Lectures.

Assistant Professor CORBIN :—

*Contracts.* 4 hrs.

The course treats of the elements required for the formation of a valid contract ; of fraud, mistake, duress, and undue influence ; of the interpretation, performance, and discharge of contracts ; and of the Statute of Frauds.

Huffcut's *Anson on Contracts* (2d ed.) ; Williston's *Cases on Contracts*.

Assistant Professor BEERS and Mr. WEBB:—

*Criminal Law.*

1 hr.

(a) To the end of the calendar year the course is under the direction of Assistant Professor Beers, and is devoted to a study of the elementary principles of Criminal Law.

Robinson's *Elementary Law*.

(b) From the end of the calendar year the course is under the direction of Mr. Webb. The common law felonies and misdemeanors are considered, as well as the general principles governing statutory offenses.

Kenny's *Outlines of Criminal Law, Webb's Edition*.

Judge PECK:—

*Domestic Relations and the Law of Persons.*

1 hr.

The course considers marriage and divorce, husband and wife, infancy, parent and child, guardian and ward, employer and employee, persons under the disabilities of insanity, alienage, etc.

Lectures and Cases.

Professor WURTS:—

*Evidence.*

2 hrs. 1st half-year.

An elementary course in which the student is required to memorize the principal rules and their exceptions governing production and admissibility of evidence.

Reynold's *Theory of Evidence*.

Professor WURTS:—

*Property.* (Subject commenced.)

2 hrs. beginning in January.

The course covers the entire field of estates in real and personal property, rights incident to ownership, powers, trusts, rights to the use or profits of another's land, and fraudulent disposition of property.

Tiffany on *Real Property*, vol. 1, and Lectures.

Professor WATROUS:—

*Torts.*

2 hrs.

This course includes private wrongs (other than those which consist of breaches of contract), liability for tort and remedies therefor, and specific torts.

Cooley on *Torts* (Students' edition) and Chase's *Cases on Torts*.



## THE FOLLOWING COURSES ARE OPTIONAL:

Dr. BIERKAN :—

*Commercial Accounts.* 1 hr.

The course explains systems of accounts used in commercial establishments and considers accounts as evidence in court and accounts from the standpoint of the counselor.

Mr. J. E. WHEELER :—

*Looking up the Law.* 5 lectures in 2d half-year.

The student is shown how to find legal authorities. The use of text-books and decisions, and the proper method of analysis and classification of statements of fact, are explained.

Mr. WETZEL :—

*Elocution.* 1 hr.

Especial attention is given to vocal training. The student is expected to acquire a correct and refined pronunciation of English, and an absolutely distinct and natural utterance.

Cumnock's *Choice Readings*.

Mr. EDGERTON :—

*Study of Cases.* 1 hr. 2d half-year.

The course considers headnotes and digests, weight to be given cases, dicta, and text-books as authorities; modes of criticizing a case, and the writing of briefs.

Wambaugh on *The Study of Cases*.

Assistant Professor SHERMAN :—

*Use of the Library.* 1 hr. 1st half-year.

The course explains different kinds of law books, abbreviation and citation, use of unofficial series of reports, methods of searching for authorities, use of bibliographies and printed guides to legal literature.

Lectures and Practical Exercises.

## SECOND YEAR.

Professor BALDWIN :—

*American Constitutional Law.* 2 hrs.

This course considers the foundations of constitutional law laid in colonial times; the general nature of constitutional government; and its development both in the States and the United States.

Cooley's *Principles of Constitutional Law*, the *Yale Cases on Constitutional Law*, and Lectures.

Judge PECK :—

*Civil Procedure.*

1 hr.

The course considers fundamental principles of procedure, constitution and powers of courts, jurisdiction, venue, institution and conduct of actions, trial and argument of causes, the jury, verdicts, judgments, proceedings in error, etc.

Lectures and Moot Courts.

Professor PRENTICE :—

*Code Pleading.*

1 hr.

The course gives an intelligent understanding of those distinctive features of code pleading which are common to the several jurisdictions in this country where the code system has been adopted.

Bryant on *Code Pleading*.

Professor ROGERS :—

*Equity Jurisprudence.*

2 hrs.

The course gives the student a knowledge of the development and present condition of equity jurisprudence, includes a careful study of equitable titles, equitable rights, and equitable remedies.

Bispham on the *Principles of Equity*.

Judge PECK :—

*Evidence.* (Subject continued.)

2 hrs. 2d half-year.

The student is required to apply the principles of evidence to facts and situations which might arise in the course of trial. The work is intended to be thoroughly practical.

Thayer's *Cases on Evidence* (the book begun).

Professor WOOLSEY :—

*International Law.*

2 hrs. 1st half-year.

Exposition of the rules which govern the relations of States in peace and in war.

Lectures.

Professor ROGERS :—

*Private Corporations.*

2 hrs.

This course considers the manner of creating, managing, and dissolving corporations, the rights and duties of officers, directors, and stockholders, the rights and remedies of creditors, etc.

Marshall on *Private Corporations*, and the *Yale Cases on Private Corporations*.

Mr. EDGERTON :—

*Promissory Notes and Bills of Exchange.* 2 hrs. 1st half-year.

A consideration of the formal and essential requirements of negotiable instruments, their acceptance, indorsement, transfer, presentment and notice of dishonor, and the nature of the liability of the respective parties thereto.

Norton on *Bills and Notes*, 3d edition, Selected Cases and Lectures.

Professor WATROUS :—

*Quasi-Contracts.* 1 hr. 1st half-year.

This course deals with contracts implied in law, so-called, as distinguished from express contracts and those implied in fact, and covers the recovery of money paid by mistake, unjust enrichment at another's expense, etc.

Professor WURTS :—

*Property.* 2 hrs.

A continuation of the first-year course on vols. I and II, on the same subject. It covers the entire field of title, except title by private grant (see *Titles and Conveyancing*) and title by devise (see *Wills*), prescriptive rights, mortgages, and liens both equitable and statutory.

Tiffany on *Real Property*.

Assistant Professor BEERS :—

*Titles and Conveyancing.* 1 hr.

A course on private grant, including execution of deeds, capacity to convey, covenants, registration, examination of title and abstract of title, with practical exercises in conveyancing.

Tiffany on *Real Property*, Lectures and practical exercises.

THE FOLLOWING COURSES ARE OPTIONAL :

Professor WURTS :—

*Damages.* 1 hr. 2d half-year.

Hale on *Damages*.

Mr. WETZEL :—

*Elocution, Vocal and Gestural Expression.* 1 hr.

The course includes the vocal interpretation of Julius Cæsar. Students are expected to acquire the ability to interpret thought readily through the harmonious blending of the elements of expression.

Cumnock's *Choice Readings*.

Mr. WEBB :—

*Medical Jurisprudence.*

1 hr. 1st half-year.

The course considers the symptoms produced by poisons, and explains the methods of their determination. Insanity and the rules of law applicable thereto are considered, and expert and opinion testimony.

Lectures.

Assistant Professor SHERMAN :—

*Roman Law.*

1 hr.

The outlines of Roman Law in its developed form as well as the leading features of its historical growth.

Bernard's *First Year of Roman Law* (Sherman's edition), and Lectures.

THIRD YEAR.

The courses in Evidence, Mortgages, Municipal Corporations, Practice in United States Courts, Sales, and Wills, are required of all students not specially excused. The student will elect at least eight additional year-hours.

Professor BEACH :—

*Admiralty, Copyrights, Patents, and Trademarks.*

1 hr.

The course covers history and principles of admiralty, copyright, patent, and trademark law. About half the course is devoted to patent law.

Lectures and Cases.

Professor WOOLSEY :—

*American Diplomatic History.*

1 hr.

The course considers Diplomacy of the Revolution, U. S. Foreign Relations from 1793 to 1815, Boundary questions, Fishery questions, Civil War diplomacy, relations with Cuba, and the War with Spain.

Lectures.

Mr. COXE :—

*The Law and Practice of Bankruptcy.*

1 hr. 2d half-year.

An historical review of the bankruptcy systems of foreign nations. An examination of the United States bankruptcy laws, constitutionally and historically considered as a regulation of commerce, and the study of the law as it exists to-day, and of the practice thereunder.

Lectures. Leading Cases.

Judge PECK :—

*Civil Procedure.*

1 hr.

The course deals with the actual conduct of cases in code states, from the standpoint of helpful suggestions rather than of theoretical law. The conduct of actions in Yale Moot Court is required.

Lectures and Moot Courts.

Mr. WEBB :—

*Criminal Procedure.*

1 hr.

The course treats of the principles especially applicable to the trial of a criminal cause, including the practice, pleading, and evidence. The essential averments of the accusation are especially considered.

Clark's *Criminal Procedure*.

Professor ROGERS :—

*Equity Jurisprudence.*

2 hrs.

The course supplements the course on the same subject in the Second year. It is based on a study of leading cases illustrating the maxims and most important doctrines of equity.

Ames's *Cases in Equity Jurisdiction*.

Professor WATROUS :—

*Estates.*

1 hr. for 10 weeks in 2d half-year.

The course is chiefly devoted to the consideration of the history and extent of the probate jurisdiction, and the practice in probate courts.

Lectures.

Judge PECK :—

*Evidence.* (Subject concluded.)

1 hr.

The aim of this course is not only to reach a clear understanding of the principles, but also to learn something of their historical development and the reason for their existence.

Thayer's *Cases on Evidence*.

Professor WURTS :—

*Extraordinary Legal Remedies.* 14 lectures in 2d half-year.

An examination and discussion of the common law principles of *habeas corpus*, *mandamus*, *quo warranto*, and prohibition.

Lectures.

Assistant Professor ZAHM :—

*Insurance.*

1 hr.

A thorough, comprehensive, and critical study of the principles of fire, life, marine, accident, guaranty, credit, and liability insurance law.

Vance on *Insurance*.

Professor GAGER :—

*Jurisprudence.*

1 hr.

In this course law is studied historically as a development, and philosophically as a formal science.

Maine's *Ancient Law* and Holland's *Jurisprudence*.

Professor GAGER :—

*Mortgages.*

1 hr.

This course considers the history of mortgages, and gives a practical working knowledge of the fundamental principles of the law of mortgages in force in the United States.

Kirchwey's *Cases on Mortgages*.

Professor ROGERS :—

*Municipal Corporations.*

1 hr.

The course considers the creation and dissolution of municipal corporations, municipal charters and ordinances, municipal elections and officers, the liability of municipal corporations for contracts and torts, the control of the legislature over them, etc.

Smith's *Cases on Municipal Corporations*.

Mr. EDGERTON :—

*Partnership.*

1 hr.

An examination and thorough study of all of the principles connected with the partnership relation, including joint stock companies and limited partnerships.

Mecham's *Elements* and Mecham's *Cases on the Law of Partnerships*.

Judge PECK :—

*Practice Act of Connecticut.*

2 hrs. 1st half-year.

A study of the history, theory, and practical working of the Practice Act and the rules under it with reference to leading cases.

Lectures and *Connecticut Practice Act with Rules*.

Assistant Professor ZAHM :—

*Practice in New York Courts.*

2 hrs.

The course covers the several steps in a civil action from its inception to judgment, together with the various proceedings

incidental thereto, and with especial emphasis upon pleading, under the New York Code.

Lectures and the *New York Code of Civil Procedure*.

Professor WURTS :—

*Practice in the United States Courts.* 2 hrs. 2d half-year.

A course of lectures on pleading and practice in the Federal Courts, especially in equity.

Wurts's *Cases*.

Professor BALDWIN :—

*Railroad Law.* 1 hr.

The discussion is mainly confined to what is distinctive in Railroad Law, but also includes the application to railroad companies of the general rules of corporation law.

Lectures and Baldwin's *Cases on Railroad Law*.

Assistant Professor BEERS :—

*Remedies.* 1 hr.

Covering the subject of remedies and remedial rights in the common law and equity systems briefly and under the Codes at length ; embracing the essential elements of the cause of action, pleading, parties, and procedure.

Pomeroy on *Remedies and Remedial Rights*.

Assistant Professor SHERMAN :—

*Roman Law.* 1 hr.

The history of Roman Law prior and subsequent to its codification by Justinian. A systematic study of Roman Law, special attention being given to the Institutes and Digest.

Bernard's *First Year of Roman Law* (Sherman's edition), *Yale Cases on Roman Law*, Moyle's *Institute of Justinian*, and Lectures.

Professor BEACH :—

*Sales of Personal Property.* 2 hrs.

A thorough study of the nature and formalities of the contract of bargain and sale, future sale and conditional sale, and of the rights, duties, and liabilities of the respective parties to the contract.

Benjamin on *Sales*.

Assistant Professor CORBIN :—

*Suretyship.* 1 hr.

A study of the obligations, the rights, and the defenses of a surety, in relation to the creditor, co-sureties, and others, in

equity and at law, whether the surety's contract be regarded as collateral or original.

Ames's *Cases on Suretyship*.

Professor WURTS :—

*Taxation.*

1 hr. 2d half-year.

This course deals with the exercise of the power of taxation and its limitations, with the remedies of property owners and the rights and liabilities of property owners *inter se*.

Lectures.

Professor ROGERS :—

*Trusts.*

2 hrs.

The course treats of appointments, substitution, resignation, and removal of trustees, relation of trustees to trust estates, powers, duties, and obligations of trustees, rights and remedies of *cestui que trust* and extinguishment of trusts.

Ames's *Cases on Trusts*.

Mr. DAGGETT :—

*Wills.*

2 hrs. 1st half-year.

The course includes history, nature of power, testamentary capacity, undue influence, requirements of execution, extended study of leading principles and more frequent problems of construction, and exercises in the drafting of wills.

Gardner on *Wills* and Selected Cases.

Mr. MUNSON :—

*Beginnings of Legal Practice.* 7 lectures in 2d half-year.

Generally speaking, these lectures are intended to acquaint the novitiate with the practical side of his profession, and with that which is acquired only by actual experience at the bar.

Dr. THACHER :—

*Special Topics in Corporation Law.*

5 lectures in 2d half-year.

The course is intended to show the nature of incorporation or the franchise of corporate being, the use and abuse of the fiction of the legal entity, the various relations to which incorporation gives rise, and the special difficulties of corporation law.

Mr. WETZEL :—

*Forensic Oratory.*

1 hr.

Students are instructed in composition and delivery of forensic oratory. This course is open to those who have had the course in vocal culture of the first year.

Robinson's *Forensic Oratory*.



Dr. MORRIS :—

*International Arbitration and Procedure.* 3 lectures.

Professor BALDWIN :—

*Legal Ethics.* 5 lectures in 2d half-year.

Mr. FOSTER :—

*Liberty of Contract.* 5 lectures in 2d half-year.

The course includes a discussion of the constitutionality of labor legislation or laws intended to better the condition of the manual working classes.

Judge PERRY :—

*Parliamentary Law.* 12 lectures in 1st half-year.

The course considers origin of parliamentary law and modern common law on the subject. It explains changes commonly made by special rules, and gives directions for the conduct of deliberative bodies.

Mr. TOWNSEND :—

*Transfer of Monetary Securities.* 5 lectures.

The course treats of the history and growth of corporate securities, and their negotiability and "quasi negotiability" as developed by necessities of commerce, estoppel, custom, etc. The longer course, when given, takes up gambling contracts, usury, and history, and methods of London and New York Exchanges and Paris Bourse.

Professor BEACH :—

*Conflict of Laws.* 1 hr.

A study of the conflict of laws, with especial reference to its application as between the several States.

Minor's *Conflict of Laws*, Lectures and Cases.

### EXAMINATIONS

The rules relating to written examinations are as follows :

1. The members of the First-Year class, at the end of the first term, will be examined upon all subjects studied during the term. This examination is intended to test the student's progress and is not final upon the topics covered. If the result discloses a student's inability to satisfactorily carry the work of the School, his registration will be cancelled.

2. The members of all classes will be given final examinations at the time the study of a subject is concluded, provided the work is completed prior to the Easter recess. If concluded thereafter it is optional with the instructor to give the examination upon the completion of the work or postpone it to the end of the academic year.

3. Examination will include not only the prescribed subjects in the first and second years, and the elected subjects in the third and fourth years, but also such optional courses as the student may have pursued. Marks obtained in examinations on optional subjects will be considered in determining relative rank at the close of the year.

4. When a student's unexcused absences in any study amount to 15 per cent. of the total requirement in that study, his registration in that subject is cancelled and the privilege of examination therein is denied.

The student should present his excuse for absence in writing to the Dean.

5. A member of the First-Year class cannot be advanced to the Second-Year class until he shall have removed all entrance conditions, if any; satisfactorily passed examinations on subjects requiring at least eleven (11) hours of work per week; attained at least a pass mark on a general average of all the required studies of the year; and been deemed worthy of advancement by the Faculty.

6. A member of the Second-Year class cannot be advanced to the Third-Year class until he shall have removed all conditions on First-Year subjects, if any; obtained credit for at least twenty-six (26) hours of required work; and complied with the other provisions of Rule 4.

7. No student is admitted to an examination in a subject for which he did not regularly register.

8. Special examinations cannot be given except by vote of the Faculty and under special circumstances.

9. The examination of conditioned students will be held at Hendrie Hall on September 27, 28, and 29, 1909, at 9.00 A. M.

#### PRACTICE COURTS

The intention is that students shall acquire as thorough a knowledge of actual practice as can be derived in a law school. With this end in view the YALE MOOT COURT and the SUPREME COURT OF THE YALE LAW SCHOOL have been established.

The YALE MOOT COURT is presided over by the instructor in Court Procedure, who has himself had actual experience as a judge of a trial court. The court is provided with a full corps of officers, a clerk, assistant clerk, sheriff and the necessary deputies. It is divided into two departments, known as the First Department and the Second Department. The members of the Third-Year class constitute the bar of the First Department, and the members of the Second-Year class that of the Second Department.

The purpose is to give practical instruction in pleading and practice at law and in equity, both under the common law system and the "reformed" or "code" procedure. Pleading and practice in the Second Department is according to the common law; and in the First Department is under the New York Code of Civil Procedure in all civil cases assigned to students not resident in Connecticut, and under the Connecticut Practice Act and the Connecticut Rules of Court in all civil cases assigned to students resident in Connecticut. Any student may, however, be transferred from Connecticut to New York practice, or *vice versa*, upon application to the instructor in Court Procedure.

Equity cases are governed by the rules of equity practice in the United States courts.

Printed statements of facts are prepared and assigned upon which process is to be issued, pleadings drawn, and the case conducted to an issue. When there is a question of fact it is submitted to trial by jury, the jurors being summoned from the First-Year class. Questions of law are argued and disposed of upon the facts submitted.

Writs of error, or appeals, from the judgments of the Yale Moot Court may be taken to the Supreme Court of the Yale Law School, which is composed of some of the members of the Faculty of Law.

Students issue, serve, and return the process, prepare and file the proper pleadings, conduct the trial (when it is necessary to have a trial) and make the legal argument

upon the facts involved. When a judgment is obtained the successful party enters it upon the court records. Writs of error, executions, or other writs are prepared by the students and signed by the clerk of the court.

In this way the student is given practical experience in the commencement of suits, the preparation of pleadings, the argument of the law, the trial of the case, the entry of judgment, the taking out of execution, and the appealing of the case to the court of last resort.

#### CONVEYANCING

A COURSE IN CONVEYANCING has been established with the view of extending the practical instruction given in the Law School. The purpose of the course is not merely to give systematic instruction in the substantive law of the subject, but also to afford a thorough drill in the drafting of deeds, mortgages, wills, contracts, and other instruments which the lawyer in actual practice is likely to be called upon to prepare. The work of the student is submitted to the instructor, and is reviewed and commented upon by him.

#### STUDENTS' ORGANIZATIONS

There are two flourishing debating societies—the KENT CLUB and the WAYLAND CLUB—which are conducted by the law students, and afford a good opportunity for practice in public speaking.

Class Quiz clubs also exist and hold their meetings in rooms provided for their use in the Law School. Those formed in the first year are under the special direction of a competent instructor appointed by the Governing Board.

The YALE FORUM has been formed by the students of the Law School. The organization is non-partisan and is addressed from time to time by men prominent in political affairs.

The YALE SENATE is composed of students in the Graduate Course in the Law School who have organized themselves into a body patterned after the Senate of the

United States. Bills are introduced and discussed as in a legislative body.

#### THE YALE LAW JOURNAL

The YALE LAW JOURNAL is a legal periodical conducted by an editorial board of students. The members of this board are chosen by competition, the results of which are passed on by a committee of the Faculty, which reports to that body its findings and recommendations. The Journal contains about seventy-five pages in each issue, and appears once a month during the academic year. Each issue is made up of five chief departments: First, leading articles upon important and interesting legal subjects; second, comments upon significant occurrences in the legal world; third, abstracts and digests of the most important recent cases with a citation of leading authorities previously decided upon the same points; fourth, reviews of books; and fifth, alumni notes.

#### GRADUATE COURSE

The graduate course is designed to afford to the advanced student an opportunity to round out his legal acquirements and to investigate the philosophic principles of human law in a more comprehensive manner than is possible in the undergraduate course. The primary conceptions to which the student was introduced at the commencement of his studies are again taken up and developed in a scientific method, and examined in the light of various systems of practical jurisprudence now or heretofore prevailing.

Graduate instruction, besides continuing some of the lines of study pursued in the undergraduate course, comprehends many of a more scientific and philosophical character, including Comparative Jurisprudence, Legislation and Government, Legal History, Economics, Roman Law, Foreign European Codes, and Private International Law. The regular course of study for candidates for the degree of Master of Laws covers a period of one year, but students are at liberty to take a part of the course one

year and part another year, being examined at the close of each year on the studies pursued and dividing the tuition fees in like proportion. Two years of study will generally be found necessary in order to complete the work for the degree of Doctor of Civil Law.

#### ADMISSION TO GRADUATE COURSE

The following persons will be admitted to the graduate course as candidates for the degree of Master of Laws (M.L. or LL.M.):

1. Persons who are graduates of some Law School which is a member of the Association of American Law Schools.

2. Persons who are graduates of some Law School in a foreign country, which Law School is of recognized standing and requires at least three (3) years' study of Law as a condition of graduation.

3. Persons who have been admitted to the Bar, either in this country or another, and who have been actively engaged in practice for not less than five (5) years, and who present a recommendation from one of the judges of the highest court of the State or Country in which they have practiced.

Persons expecting to complete the work for the Master's degree in one year must register prior to the first day of October.

The following persons will be admitted as candidates for the degree of Doctor of Civil Law (D.C.L.):

1. Persons who have a degree in Arts or Science from a College or University of recognized standing, or have had an education equivalent to that required for that degree, and who are also graduates of some Law School which is a member of the Association of American Law Schools, or of some Law School in a foreign country, which Law School is of recognized standing and requires at least a three (3) years' study of Law as a condition of graduation.

2. Persons who are graduates of the Yale Law School and are unable to meet the requirements as established in the preceding paragraph but who have obtained a law degree at Yale, either *cum laude*, *magna cum laude*, or *summa cum laude*.

3. But no person can be admitted as a candidate for the degree of Doctor of Civil Law without passing a preliminary examination upon the subjects following:

(A) The outlines of Roman Law and History unless the applicant received his degree at a Law School where Roman Law constituted one of the studies upon which he there passed a satisfactory examination, which fact shall be duly certified.

(B) Latin, and either French or German.

The examination is designed to test the candidate's ability to translate at sight.

In the case of students from foreign and non-English speaking countries, a good knowledge of the English language may be accepted as an equivalent for that of French or German.

Examinations for admission to the graduate course will be held on the second day after the University Commencement, beginning at 9.00 A. M., in the Law School Building.

#### GRADUATE COURSES OF INSTRUCTION

A graduate student must elect and satisfactorily complete at least twelve hours of class-room work. He must select a major course of study and such number of minor courses as may be approved by the Faculty. The major course must occupy at least two hours a week throughout the year. Several minor courses, on cognate subjects, may be taken as together constituting a major course. The major and minor courses may be upon the same or different topics, in the six groups stated, but courses covering at least three hours a week, throughout the year, must be selected from one or more of Groups II, III, V, and VI.

One intending to apply for the degree of Doctor of Civil Law must make Course 9 in Roman Law his major study.

Roman Law is made the principal topic for those who desire the degree of D.C.L. The Institutes of Justinian and a considerable part of the Commentaries of Gaius are read. Illustrative cases are studied from the Digest, including some as treated in Eckert's *Chrestomathie*, and Hess's *Achtzehn Rechtsfälle*. Roby's *Introduction to the Digest* is used and leading titles of the Digest, Code, and Novels made the subject of investigation.

The lectures on Political and Social Science, Economics, etc., are given in connection with the graduate courses in the Philosophical Department of the University, and are attended by the graduate students of the Law School in common with the members of that Department.

Elections may be made by graduate students from the following topics and courses :

#### GROUP I

##### *The Organization and Working of Human Society*

Professor GREGORY, Assistant Professor BISHOP, Mr. BOWMAN, Mr. HUNTINGTON, Dr. BOGGS, Mr. H. P. FAIRCHILD, and Mr. VARNEY :—

- 1 *Physical and Commercial Geography.* 3 hrs.  
[See Course XIX, A 1, page 177.]

Professors ADAMS and WALKER :—

- 2 *Medieval Institutions.*  
[See Course IX, 72, page 386.]

Professor FARNAM :—

- [3 *Social Politics.* 2 hrs.  
[See Course IX, 24, page 381.]  
Omitted in 1908-09.]

Professor SUMNER :—

- 4 *The Self-Perpetuation of Society.* 2 hrs.  
[See Course IX, 3, page 379.]

Professor SUMNER :—

- 5 *The Science of Society.* [Seniors.] 2 hrs.  
[See Course XXIV, C 7, page 197.]



## GROUP II

*General Jurisprudence and Ancient Law*

Professor GAGER :—

- 6 *General Jurisprudence.* 1 hr.

This is an undergraduate course open to graduates. See page 508.

Professor GAGER :—

- 7 *General Jurisprudence.* 1 hr.

This is an advanced course upon special topics in legal history and legal theory which may be selected according to the needs of those taking it. Primary consideration is given to English and American law. Holmes's *Common Law* may be referred to as indicating the nature and scope of the work required.

Assistant Professor CHARLES P. SHERMAN :—

- 8 *Roman Law.* 1 hr.

An undergraduate course open to graduates. See page 509.

- 9 *Roman Law.* 2 hrs.

Reading from and consideration of Gaius, Theodosian Code, *Corpus Iuris Civilis*, and *Basilica*; study of selected cases and leading titles. Krueger, Mommsen, and Schoell's *Corpus Iuris Civilis* and Sohm's *Institutes*. Open only to those who have a reading knowledge of Latin.

- 10 *Canon Law.* 10 lectures in 2d half-year.

Lectures on the origin and development of Canon law, with special attention to the *Corpus Iuris Canonici* and its influence on English and American law.

## GROUP III

*Comparative Jurisprudence and Government*

Dr. BOGGS :—

- 11 *Colonization.* 2 hrs.

[See Course XXIV, B 5, page 197.]

Mr. HARRIMAN :—

- 12 *Comparative Administrative Law.* 1 hr.

This course deals with the organization of the administration of the United States, England, France, and Germany, and with the practical workings of the different theories of administrative law and organization of these countries. Goodnow's *Comparative Administrative Law* is used as a text-book, and original investigation of various questions is required.

Professor RAYNOLDS :—

13 *Comparative Constitutional Law.* 2 hrs.

A comparative study of the typical forms of state organization and of constitutional law and practice as developed in modern constitutional states. Special attention is given to the subject of Federal States and other State-complexes.

Lectures. "

Professor BALDWIN :—

14 *Private International Law.* 1 hr.

This is a seminary class for the conversational discussion of the various topics covered by this branch of law, and examination of the present attitude towards them of the principal nations of the world. Leading cases in the American courts, bearing on the conflict of laws, are studied, and Wharton's *Private International Law* is read.

Professor RAYNOLDS :—

15 *The French Codes.* 2 hrs.

A study of the civil and penal codes with references to commentaries and judicial decisions.

*Les Codes Français*, or *Le Code Civil* and *Le Code Penal*, any recent edition.

Professor RAYNOLDS :—

16 *The German Imperial Code.* 1 hr.

A study of the civil code of the German Empire, with explanation in regard to the division of legislative power between the Empire and the several States, and some consideration of the supplementary legislation of the latter.

*Das Bürgerliche Gesetzbuch für das Deutsche Reich.*

Professor RAYNOLDS :—

17 *Spanish Law.* 1 hr.

The Spanish codes and Spanish legal institutions, with special reference to our colonial dependencies.

*Códigos Civil Español* or Walton's *Civil Law in Spain and Spanish America*.

GROUP IV

*American and English Constitutional Law and History*

Professor BALDWIN :—

18 *American Constitutional Law.* 2 hrs.

An undergraduate course open to graduates. See page 503.

Professor CHARLES H. SMITH :—

- 19 *American (Constitutional) History.* 2 hrs.

(a) A study of the Federal Constitution, tracing the origin, purpose, and working of its principal provisions. Lectures and collateral reading, with an examination at the close of the course.

(b) An extended course of reading in speeches and writings of statesmen and jurists, and decisions of the Supreme Court, with inquiry into important phases of public opinion on the constitution.

Professor CHARLES H. SMITH :—

- 20 *The United States since 1860.* 2 hrs.

[See Course IX, 97, page 389.]

Professor ARTHUR M. WHEELER :—

- 21 *Constitutional and Political History of England since 1760.*

2 hrs.

[See Course IX, 87, page 388.]

Professor ADAMS :—

- 22 *English Constitutional History to the Present Time.* 2 hrs.

[See Course XXIII, C 35, page 195.]

Assistant Professor RICHARDSON :—

- 23 *English History from the Accession of the Tudors to the  
Reign of William and Mary.* 2 hrs.

A research course extending through two years.

[See Course IX, 86, page 388.]

Professor WOOLSEY :—

- 24 *International Law in American History.* 1 hr.

A seminary course.

#### GROUP V

#### *American Jurisprudence and Legislation*

#### PUBLIC LAW

Professor ROGERS :—

- 25 *Municipal Corporations.* 1 hr.

An undergraduate course open to graduates. See page 508.

Judge PERRY :—

- 26 *Parliamentary Law and Drafting of Statutes.* 1 hr.

## PRIVATE LAW

Assistant Professor BEERS :—

27 *Attorneys.* 1 hr.

A course upon the rights, duties, and liabilities of attorneys at law in all the States, embracing the history of the office of attorney, and a study of the leading cases upon the subject.

Professor BEACH :—

28 *Admiralty, Copyrights, Patents, and Trademarks.* 1 hr.

An undergraduate course open to graduates. See page 506.

Mr. COXE :—

29 *Bankruptcy.* 1 hr. 2d half-year.

An undergraduate course open to graduates. See page 506.

Mr. BOWERS :—

30 *Forest Administration and Law.* 2 hrs. 1st term.

[See Forest School, Courses 26, 27, page 431.]

Assistant Professor ZAHM :—

31 *Insurance.* 1 hr.

An undergraduate course open to graduates. See page 508.

Mr. WEBB :—

32 *Medical Jurisprudence.* 1 hr. 1st term.

An undergraduate course open to graduates. See page 506.

Assistant Professor CORBIN :—

33 *Mining, Irrigation, and Public Lands.* 1 hr.

A study of the Federal mining law applicable to the public lands, including State legislation and local and land office rules; of the law of irrigation in the arid land States; and of the homestead and other public land laws.

Lectures and Illustrative Cases.

Mr. EDGERTON :—

34 *Partnership.* 1 hr.

An undergraduate course open to graduates. See page 508.

Professor BEACH :—

35 *Patents.* 1 hr.

Lectures and Selected Cases. An advanced course.

Professor ROGERS :—

36 *Private Corporations.* 2 hrs.

An undergraduate course open to graduates. See page 504.

Professor GAGER :—

37 *Public Service Corporations.* 1 hr.

The laws special to the conduct of those kinds of business classed as public service business and public utilities are investigated through the medium of selected cases and informal lectures. The nature of such business, the methods of incorporation and public control, and the rights and obligations of those conducting such business, at common law and under statutes, together with some attention to the laws concerning combinations and monopolies, are the leading topics.

Lectures.

Professor BALDWIN :—

38 *Railroad Law.* 1 hr.

An undergraduate course open to graduates. See page 509.

Professor BEACH :—

39 *Receivers.* 1 hr.

The appointment and duties of receivers of corporations, and the practice relating to the administration of corporate affairs by receivers.

Lectures and Cases.

Assistant Professor BEERS :—

40 *Remedies.* 1 hr.

An undergraduate course open to graduates. See page 509.

Assistant Professor CORBIN :—

41 *Suretyship.* 1 hr.

[See Third-Year Course, page 509.]

Professor ROGERS :—

42 *Trusts and Trustees.* 2 hrs.

An undergraduate course open to graduates. See page 510.

GROUP VI

*International Law and Diplomacy*

Assistant Professor WILLIAMS :—

43 *Diplomatic Intercourse with Asiatic Nations.* 2 hrs.

[See Course IX, 102, page 389.]

Professor WHEELER :—

44 *History of Treaties, 1763-1815.* 1 hr.

[See Course IX, 82, page 387.]

Professor WOOLSEY :—

45 *American Diplomatic History.* 1 hr.

An undergraduate course open to graduates. See page 506.

Professor WOOLSEY :—

46 *International Law.*

1 hr.

Research and advanced work.

Any courses from the undergraduate Law School curriculum, other than those above named, may be substituted for any of the courses named on American Jurisprudence and Legislation (Group V), by permission of the Faculty. Graduates of other Law Schools are recommended to make substitutions of undergraduate in place of some of the strictly graduate courses, in respect to such topics as they may not previously have pursued to the same extent or in the same manner as taught here.

Other courses in Political Science, Finance, History, etc., in the Department of Philosophy and the Arts, may also be substituted for some of those named in Groups I and IV, on consultation with the Faculty.

The courses above outlined are subject to change from time to time, and books should not be purchased until the work is entered upon.

In all cases the Faculty reserves the right to withdraw a course if less than three students elect it.

#### THE GRADUATE THESIS

Each graduate student is required to prepare a thesis upon some topic, preferably one connected with his major subject, which topic must be approved by the Dean.

The subject of this thesis must be filed with the Secretary of the Faculty on or before the first Monday in December.

Each thesis must contain:

1. An introductory statement of the position to be maintained, or proposition to be contended for, and also a final résumé of results.
2. An analytical outline of its contents with reference to the pages of the thesis.
3. A bibliography of the works consulted, as well as an alphabetical list of the cases cited, giving their respective dates and a reference to the pages of the thesis whereon they are cited.
4. A statement as to the period for which the cases have been examined.

Cases must be cited by name and volume and year. The student is expected to exhaust the cases decided during the period covered by his thesis, including the latest accessible cases upon the subject.

The thesis submitted for the degree of Doctor of Civil Law is regarded as of especial importance and cannot be accepted unless it is of marked excellence, evinces original research, and amounts to a contribution to legal scholarship. While its acceptance depends more upon its subject matter than upon its literary form, it must exhibit creditable literary ability.

The thesis must be typewritten on linen sheets, 8½ by 11 inches in size. There must be double spaces between the typewritten lines, and a clear margin of two inches at the left, and a like margin of one and one-half inches at the top and bottom. A thesis cannot be accepted unless the typewriting is neatly and accurately done.

An original typewritten copy must be filed with the Secretary of the Faculty on or before May 1.

All accepted theses will be bound by the School and deposited in the Law Library.

#### EQUIPMENT

HENDRIE HALL, the Law School building, faces the Green, near the College Campus. It was erected for the Law School's exclusive use and was completed in 1900. The building and grounds are valued at one hundred and seventy-five thousand dollars. The building is named after John W. Hendrie, a graduate of Yale College in 1851, now deceased, who gave sixty-five thousand dollars of the fund which the friends of the School raised for its erection. It contains ample rooms for the law library, and has, together with the executive offices and professors' rooms, six large lecture halls, and reading, conversation, and consultation rooms for the use of the students. The building is within two blocks of the Court House of New Haven County, in which two terms of the Supreme Court of Errors of Connecticut are held annually; while the

Superior Court and Court of Common Pleas (the principal civil and criminal courts of the State) are also in session there almost daily during each of the School terms, thus affording the students peculiar facilities for observing actual practice in court.

**LAW LIBRARY.** The Law Library embraces all the reports of Great Britain and America, with an extensive collection of text-books, and the leading legal periodicals. It contains 32,659 volumes, and 2,663 pamphlets.

Students are not allowed to take the books from the building, but are encouraged to examine the books on the shelves for themselves, without the intervention of the librarian. The familiarity with the reports and authorities thus gained, the Faculty deem of great importance in accustoming the student to prepare his cases intelligently and thoroughly in his future practice.

The Library includes the Albert Sproull Wheeler Library of Roman Law, now containing 2,359 volumes and being constantly increased as new works on Roman Law appear. These books constitute a separate collection, are in charge of the Law Librarian, and are accessible on request.

The Library also contains the T. L. Cole collection of Statutory Law, numbering some 4,000 volumes and constituting one of the most complete collections ever made of the Session Laws of the various States and Territories of the United States. Those desiring access to this collection should apply to the Law Librarian.

The Library is open daily, except Sundays, from 8.00 A. M. to 10.00 P. M. during the academic year, and during the Christmas vacation and Easter recess from 8.30 A. M. to 5.30 P. M. In the summer vacation it is open Tuesdays only from 9.00 A. M. to 1.00 P. M., and from 2.00 to 5.00 P. M.

A permanent endowment for the support of the Library was established in 1873 by Hon. James E. English, M.A.

For various University privileges of interest to students of the Department, including the University Library,



Dining Hall, Gymnasium, Infirmary, etc., see Part IV of the catalogue.

### PRIZES

Essays or orations submitted in competition for a prize must be typewritten, signed by a fictitious name and handed in under cover, which should be plainly marked on the outside to indicate the prize intended. They must be accompanied by a sealed envelope containing the assumed name and the real name of the writer. The essays, except those for the John A. Porter Prize, must be deposited with the Secretary of the Faculty on or before May 1. In no case will a prize be awarded if none of the competing essays is of sufficient merit.

The following prize is open to competition to any person who has been pursuing a regular course for a degree in any Department during the whole of the current College year :

The JOHN A. PORTER PRIZE, being the income of a fund of five thousand dollars, established by the Kingsley Trust Association in 1872, is offered for the best English Essay on a prescribed subject. For conditions and subjects see page 577.

The following prizes are open to competition to Law students only :

The JOSEPH PARKER PRIZE of one hundred and twenty-five dollars, established by the will of Miss Eliza T. Parker in 1898, is awarded for the best thesis on a subject connected with Roman Law. This prize is open to any member of the School at graduation from either the undergraduate or graduate course.

For the year 1909, competitors may write on any of the following subjects :

1. Did courtesy have a Roman Law root? *Code 6, 60 de bonis.*
2. The Roman Law of homicide with modern law comparisons.
3. The influence of Stoic philosophy upon Roman Law.
4. The Dejecti effusive Actio compared with Anglo-American remedy in like cases.

The TOWNSEND PRIZE of one hundred dollars, established by the Hon. James M. Townsend in 1874, is awarded that member of the Third-Year class who shall write and pronounce the best oration at the public anniversary exercises on graduation.

No oration shall contain over twelve hundred words. Students will write on every other page, leaving a full margin on the left of the page. No oration shall, as delivered, occupy more than ten minutes.

Orations must be handed to the Secretary of the Law School on or before April 1, 1909.

The selection of the final contestants will be determined by a preliminary contest of those whose orations are approved by the committee.

For the year 1909, competitors may write on any one of the following subjects :

1. Public Services of Grover Cleveland.
2. Results of the Cruise of the Atlantic Fleet.
3. The Future of Bulgaria.
4. Public Utilities Commissions.
5. Chief Justice Chase.
6. The Legacies of the Populists.
7. Government Protection to Injured Workmen.
8. The Movement in China towards Constitutional Government.

The MONTGOMERY PRIZE of fifty dollars, established by Phelps Montgomery, B.A., LL.B., in 1904, is awarded to that member of the Third-Year class who receives the highest marks at his annual examination.

The JEWELL PRIZE of fifty dollars, established by the Hon. Marshall Jewell, M.A., in 1871, is awarded to that member of the Second-Year class who receives the highest marks at his annual examination.

The BETTS PRIZE of fifty dollars, established by Frederic H. Betts, LL.D., in 1875, is awarded to that member of the First-Year class who receives the highest marks at his annual examination.

The WAYLAND PRIZES, one of fifty dollars, one of thirty dollars, and one of twenty dollars, established by Pro-

fessor Francis Wayland in 1890, are awarded to those three members of the Yale Kent Club who, at a public competitive debate, are pronounced first, second, and third in excellence as debaters.

The MUNSON PRIZES, one of fifty dollars, one of thirty dollars, and one of twenty dollars, established in 1905 by Cyrus LaRue Munson, LL.B., M.A., of Williamsport, Pennsylvania, a graduate of the Law School of the class of 1875, are awarded to those three members of the Wayland Club who, at a public competitive debate, are pronounced first, second, and third in excellence as debaters.

#### HONORS

Honors are awarded in each class, at the end of the year, to those students who have maintained a high standing in all the studies of the year.

#### CERTIFICATE OF ATTENDANCE

A regular student who has been connected with the Department for a period not entitling him to graduate, or a special student who is not a candidate for a degree, may, on application to the Secretary of the Faculty, receive an official certificate, which states the time of his attendance and the subjects on which he has passed examination.

#### DEGREES

The law degrees are conferred at the Commencement of the University, which is held on the last Wednesday in June. On this occasion all candidates for degrees are required to present themselves in person.

The rules relating to degrees are as follows :

1. Degrees are granted by the Corporation of Yale University to those persons who have completed the course of law study, with the requirements prescribed, and been recommended by the Faculty of the Department.

2. No student may be a candidate for a degree on less than a full year of residence and study, or on less than a complete year's work.

3. Any student who has not complied with the requirements for a degree before the end of his Law School course may be recommended for his degree in a subsequent year when all his deficiencies are made up.

5. Candidates' for the degree of BACHELOR OF LAWS must, to the satisfaction of the Faculty, complete courses amounting to fifteen hours per week for three years.

6. Candidates for the degree of BACHELOR OF CIVIL LAW must, to the satisfaction of the Faculty, attain a like credit under the conditions specified on page 493.

7. Candidates for the degree of MASTER OF LAWS must, in like manner, attain a credit of at least twelve hours per week for one year, and comply with the conditions specified on page 516.

8. Candidates for the degree of DOCTOR OF CIVIL LAW are required to satisfy the Faculty that they possess high attainments in scholarship and that they have complied with the conditions specified on page 516 and on pages 524-25.

9. Degrees are awarded, in cases of students of unusual merit, *cum laude*, *magna cum laude*, or *summa cum laude*.

#### EXPENSES

The annual fees for tuition and use of the University and Law libraries are one hundred and fifty dollars for all students studying for a degree. Bills for tuition will be made out and delivered to the students, or (*request to that effect being made*) mailed to the parent or guardian, three times a year, fifty dollars being payable at the beginning of the first term, and fifty dollars at the beginning, and again at the middle, of the second term, at the office of the Treasurer of the University in Woodbridge Hall. If not paid before the end of the month following the month in which they are issued, the student's registration will be cancelled and his name removed from all class lists. A student whose registration is cancelled is required at once to cease attending lectures or recitations, using the Libraries or Gymnasium, boarding at the University Dining Hall, and making use of any other privileges as a student until his indebtedness to the University has been arranged satisfactorily and his registration restored. Failure to comply with this rule is cause for final separation of the student from the University. Registration cannot be restored without the payment of an additional registration fee of five dollars.

The tuition charged for special students will be on the basis charged students studying for a degree, but proportioned to the amount of instruction and supervision required.

An additional charge of five dollars is made for graduation and is included in the last bill of the third year.

The following table exhibits the scale of annual expenditures :

	Low	Average	Liberal
Tuition . . . . .	\$150	\$150	\$150
Board, 36 weeks . . . . .	125	175	250
Half room, heat and light. . . . .	35	120	175
Washing . . . . .	15	25	40
	<hr/> \$325	<hr/> \$470	<hr/> \$615

The student may expect to expend for text- and case-books in the first year about thirty dollars, in the second year twenty-five dollars, and in the third year from twenty to forty dollars, according to the subjects elected. As the books used for purposes of instruction will be found, for the most part, essential in subsequent practice, no loss will be incurred in their purchase.

Board at cost can be obtained at the University Dining Hall by members of the Law School. Applications for seats should be addressed to the Superintendent of the Yale University Dining Hall.

The following dormitories, which are under University supervision, are open to law students : Pierson Hall, and East and West Divinity Halls. Students who desire to secure rooms in any one of the dormitories named will find it necessary to make early application. Communications concerning rooms in Pierson Hall should be addressed to Professor Henry Parks Wright, Dean of Yale College, and communications concerning rooms in the Divinity Halls should be addressed to the Superintendent of the Yale Divinity Halls.

Kent Hall, though not under University supervision, is not far removed from Hendrie Hall, and is specially open

to Law students. Communications concerning rooms in this dormitory should be addressed to the Manager of Kent Hall.

Those who desire more detailed information concerning the Law School may address letters of inquiry to the Secretary of the Yale Law School.

#### ADMISSION TO THE CONNECTICUT BAR

An examination for admission to the Connecticut bar is held annually at Hendrie Hall in New Haven in June. In 1909 the examination will take place on June 10 and 11, at 10.00 A. M. An examination is held at the Supreme Court Room in Hartford annually on the Friday and Saturday after Christmas, at 10.00 A. M.

The applicant must satisfy the Examining Committee: That he is a citizen of the United States, and twenty-one years of age, or will reach such age before the next semi-annual meeting of the Committee. That he is a person of good moral character. That after arriving at the age of eighteen he has studied law for three years, in a law school, or under competent professional instruction in the office of a practicing attorney.

Any college graduate who has also received the degree of bachelor of laws from any law school having a three-years' course of required study for that degree, may be admitted to an examination provided he has completed the course in not less than two years time.

An applicant for admission must file notice of his intention to apply for examination with the Clerk of the Superior Court of the County in which he intends to apply for admission, on May 1st for the June examination and on December 1st for the Christmas examination, and his application must have been signed by two members of the Connecticut bar and approved at a meeting of the bar of the County prior to the date of the examination.

Application papers may be obtained from the clerks of the Superior Court.

The applicant must also pay to the Clerk of the Superior Court of the County in which the examination is held an examination fee of ten dollars.

Further information on this subject can be obtained by addressing inquiries to the Secretary of the State Bar Examining Committee, James K. Blake, Esq., New Haven, Conn., or to the Secretary of the Faculty.

**PART IV**

**INSTITUTIONS CONNECTED WITH THE  
UNIVERSITY**





## LIBRARIES

JOHN CHRISTOPHER SCHWAB, PH.D., *Librarian*

ADDISON VAN NAME, M.A., *Librarian Emeritus*

FRANKLIN BOWDITCH DEXTER, LITT.D., *Assistant Librarian*

ANDREW KEOGH, M.A., *Reference Librarian*

## CURATORS

KAN-ICHI ASAKAWA, PH.D. (*Japanese and Chinese Collections*)

EDWARD THEODORE NEWELL, B.A. (*Numismatic Collections*)

HIRAM BINGHAM, PH.D. (*Collections on South American History*)

## CATALOGUERS

JENNIE CAMPBELL

RUTH LOUISE COMES

A. PAMELIA DINGMAN

JOEL NELSON ENO, M.A.

GLADYS LADD FRISBY

JESSIE CRAIG HARGER

ELLEN A. HEDRICK, B.A., *Reviser*

ARABELLA ENSIGN HORTON

ANNIE ELIZA HUTCHINS, *Reviser*

SARA GARDNER HYDE, *Reviser*

CONSTANCE KERSCHNER

BESSIE MAY LANCASTER

ANNA MARIE MONRAD, B.S.

JESSIE AGNES PARSONS

EUNICE ELEANOR PECK

HARRIET BENTON PHELPS, *Assistant in the Medical School*

MARJORIE HOUGHTON SMITH

ISABELLA MAUDE TISDALE

REBECCA DUTTON TOWNSEND

ADRIENNE VAN WINKLE, *Reviser*

MABELLE WARNER LEES WILLIAMS

ALICE AMELIA WOOD, B.S.

## ASSISTANTS

HENRY ROBERT GRUENER (*Order and Accession Department*)

HENRIETTA CLARK GILBERT (*Order and Accession Department*)

GEORGE ALEXANDER JOHNSON (*Linonian and Brothers Library*)

MAYNARD RAY SANBORN (*Order and Accession Department*)

EDNA MAY GILLETTE (*Private Secretary to the Librarian*)

JAMES ALOYSIUS DELACEY (*Order and Accession Department*)

ELIZABETH DESHLER BOGGS (*Order and Accession Department*)

CHARLES DAVID FAIRMAN (*Delivery Desk*)

KARL DIEHL (*Shelf-clerk*)

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The Standing Committee in charge of the University Library, appointed by the Corporation, consists of President HADLEY, the Librarian, Director RUSSELL H. CHITTENDEN, Professors EDWARD S. DANA, HENRY W. FARNAM, GEORGE B. ADAMS, GEORGE BLUMER, and HANNS OERTEL.

The whole number of books in the several libraries of the University is about 550,000. This number includes both bound and unbound volumes, but does not include many thousands of unenumerated pamphlets. The annual accessions exceed 25,000, and include more than 5,000 serial publications.

The UNIVERSITY LIBRARY proper contains about 450,000 volumes. These are preserved in the Old Library Building, in Chittenden Hall, erected by the munificence of the late Hon. Simeon B. Chittenden, and in Linsly Hall, recently erected with the proceeds of the generous bequest of William Baldwin Ross of the Class of 1852.

While designed especially for the use of the officers and students of the University, the privileges of the Library are open to graduates of the University, residents of New Haven, and visitors in general, who, as investigators, may have occasion to consult it.

The Yale University Library has among its notable collections the following:—The Edward E. Salisbury collection of Oriental books and manuscripts; the Count Landberg collection of Arabic manuscripts; the collection of Chinese literature, including the collection of the late

Professor S. Wells Williams ; a large collection of Japanese works ; the J. Sumner Smith Russian library, including general periodicals and publications of learned societies, and aggregating over 6,000 volumes ; the Henry M. Dexter library of Congregational history ; the Ezra Stiles manuscript diaries and itineraries ; the Jonathan Edwards manuscripts ; the manuscript letters of General Sucre ; an extensive collection of American newspaper files, and of earlier English periodical and dramatic literature since the Restoration ; a collection of coins ; the Foreign Missions library, recently bequeathed to the University by the late Professor George E. Day ; the Marsh Paleontological library, the bequest of the late Professor Othniel C. Marsh ; the Wheeler Roman Law library, bequeathed by the late Professor Albert S. Wheeler ; the Scandinavian library of Count Riant ; the Curtius library of Classical Literature, especially of Classical Archæology ; the R. von Mohl library of Political Science ; and the Lowell Mason Music library.

The University Library is especially strong in its collections of scholarly periodicals and the publications of learned societies. Its collections are notably comprehensive in American, and particularly New England history, and in the history and geography of South America. English dramatic literature and early British economic literature are uncommonly well represented ; also the various periods of mediæval history. Of current Government publications the Library receives a very large number, for instance, the British Parliamentary Papers, Hansard's Debates, the Calendars of State Papers, the German White Books, and a selected number of Government publications from Canada, Central and South America, Belgium, Italy, Japan, and Australasia. The Library's file of the United States Federal documents is nearly complete and all current documents are promptly received ; also all the State documents of the leading States and the important documents of all the State Governments.

The University Library is open on week days throughout the year with the exception of the seven leading holidays. The Library hours during term time are from 8.30 A. M. to 10.00 P. M. ; during vacations, from 8.30 A. M. to 5.00 P. M. On Saturdays during vacations the Library is closed at 12.00 M. The delivery of books for use outside the library buildings closes throughout the year at 5.00 P. M.

The LINONIAN AND BROTHERS LIBRARY, in the second story of Chittenden Hall, at present contains 20,000 selected books, to which additions are constantly made, chiefly of the best current literature. It is designed primarily for the use of the officers and students of the University, but others may be admitted to its privileges at the discretion of the Librarian. The same room contains the UNIVERSITY READING ROOM, in which are found books of reference and such books as are reserved for special use in connection with different courses of study.

The PERIODICAL READING ROOM, in the first story of Chittenden Hall, contains about 700 of the leading scholarly periodicals.

The COLLEGE READING ROOM, in Dwight Hall, is open during term time from 7.30 A. M. to 9.00 P. M., and on Sundays from 1.00 to 9.00 P. M. It contains the leading daily newspapers, and the lighter periodicals, weekly, monthly, and quarterly.

The LIBRARY OF BYERS HALL, some 500 volumes, comprises general works of reference, and books reserved for the use of students of the Sheffield Scientific School in connection with their courses of study. The current newspapers and periodicals are also taken.

The ANDREWS MEMORIAL LIBRARY, in Chittenden Hall, supplies needy Academical students with many of the necessary text-books. A similar Loan Library is maintained by the Department of the Social Sciences, and in the Sheffield Scientific School.

The LIBRARY OF THE MEDICAL SCHOOL and that of the CONNECTICUT ACADEMY OF ARTS AND SCIENCES are incorporated in the University Library.

The LIBRARY OF THE AMERICAN ORIENTAL SOCIETY, consisting of about 6,000 books and manuscripts, is deposited in the University Library.

The SHEFFIELD SCIENTIFIC SCHOOL LIBRARY, in Sheffield Hall, contains chiefly the Hillhouse collection of mathematical works, aggregating about 7,500 volumes.

The following special and departmental libraries are embodied in the University Library and placed in Linsly Hall: The Healy Philosophical Library, in room 26; the Historical Club Library, room 23; the Political Science Club Library, room 25. The seminary rooms and libraries of the following departments are also found in Linsly Hall: The Historical Sciences; the Social Sciences; Philosophy and Psychology; the Modern Languages; the Natural and Physical Sciences.

The following special libraries are connected with the various Departments of the University, and serve the use of the officers and students of its departments:

Name	Location	Approximate Number of Books
LAW	Hendrie Hall	32,300
BIOLOGY	Sheffield Biological Laboratory	300, chiefly bound periodicals
CHEMISTRY	Sheffield Chemical Laboratory	3,600, chiefly bound periodicals
CHEMISTRY	Kent Chemical Laboratory	800, manuals and periodicals
BOTANY	Sheffield Hall	1,500, periodicals and herbarium
MINERALOGY, GEOLOGY AND PHYSIOGRAPHY	Kirtland Hall	7,000
GEOLOGY AND MINERALOGY	Peabody Museum	16,000
ASTRONOMY	Observatory	4,500
FORESTRY	Forest School	6,000, standard works and periodicals

Name	Location	Approximate Number of Books
MATHEMATICS	Sheffield Hall	7,500 (see above)
MATHEMATICAL CLUB	90 High Street	600, chiefly manuals
ENGINEERING	Winchester Hall	1,500
PHYSICS	Sloane Laboratory	800, periodicals and manuals
PHYSICS	Winchester Hall	1,000, chiefly bound periodicals
BOOCOCK	Herrick Hall	800, chiefly anthropological
CLASSICAL CLUB	Phelps Hall	2,800
ROMANCE DEPARTMENT	Lampson Hall	200
GERMANIC DEPARTMENT	Lampson Hall	800
BIBLICAL LITERATURE DEPARTMENT	Fayerweather Hall	500
BIBLICAL LITERATURE AND MISSIONS	Dwight Hall	1,450
TROWBRIDGE REFERENCE LIBRARY	Divinity School	7,000, standard theological works
FOREIGN MISSIONS	East Divinity Hall	7,500 (see above)
MUSIC DEPARTMENT	126 College Street	500
ART LIBRARY	Art School	700

## PEABODY MUSEUM OF NATURAL HISTORY

### TRUSTEES

Professor EDWARD SALISBURY DANA, PH.D., *Chairman*

The GOVERNOR OF CONNECTICUT, *ex-officio*

President ARTHUR TWINING HADLEY, LL.D.

Professor GEORGE JARVIS BRUSH, LL.D.

HON. GEORGE PEABODY WETMORE, M.A.

WILLIAM WHITMAN FARNAM, M.A.

CORNELIUS VANDERBILT, M.E.

### CURATORS

ADDISON EMERY VERRILL, M.A., *Curator of the Zoological Collection*

EDWARD SALISBURY DANA, PH.D., *Curator of the Mineralogical Collection*

CHARLES SCHUCHERT, M.A., *Curator of the Geological Collection*

GEORGE FRANCIS EATON, PH.D., *Curator of the Osteological Collection and Associate Curator in Vertebrate Paleontology*

GEORGE GRANT MACCURDY, PH.D., *Curator of the Anthropological Collection*

RICHARD SWAN LULL, PH.D., *Associate Curator in Vertebrate Paleontology*

In 1866, George Peabody, of London, but of Massachusetts birth, entrusted to a board of Trustees, selected by himself, the sum of one hundred and fifty thousand dollars "to found and maintain a Museum of Natural History, especially in the departments of Zoology, Geology, and Mineralogy, in connection with Yale College." Of this sum, one hundred thousand dollars was devoted by Mr. Peabody to the erection, "on land to be given for that purpose by the President and Fellows of Yale College, of a fire-proof building," "planned with special reference to its subsequent enlargement," to be, "when completed, the property of Yale College." Of the remainder of the gift, twenty thousand dollars was set apart to "accumulate as a building fund," and thirty thousand dollars to meet by its income from investment the ex-

penses attending "the care of the Museum, the increase of its collections, and the general interests of the departments of science before named."

Ten years later, in 1876, the first wing of the Museum—the part now standing—was completed and furnished with cases at a cost of one hundred and seventy-five thousand dollars, the whole outlay being met by the accumulated building fund. The central part of the projected structure and the south wing—which will extend it to Library street—remain to be built whenever the means available for the purpose shall be adequate. The central part is much needed, as only a small part of the specimens secured can now be placed on exhibition.

The first floor of the building is devoted to the departments of Mineralogy and Geology, and contains also a large lecture room. The minerals occupy cases in the west room, the door of which fronts the entrance to the Museum. The minerals of the Gibbs collection, deposited by Col. George Gibbs with the College in 1809-10, and purchased in 1825 at a cost of twenty thousand dollars, and the extensive accumulations since made, are here preserved and for the most part on exhibition, making one of the largest public collections of the kind in the country. Besides minerals, the exhibition room contains one of the largest collections of meteorites in the country. Among the specimens, there are the famous mass of meteoric iron from Texas, weighing 1635 pounds; some hundreds of meteorites, large and small, all of which came from a single fall in Iowa, in May, 1879; the interesting Weston meteorite, which fell in Weston, Connecticut, in 1807, and was soon after described at length by Professors Silliman and Kingsley; besides many others of special interest. An important addition is a collection of meteorites numbering nearly one thousand, which came from the great meteoric fall of May 2, 1890, in Winnebago County, Iowa. Another valuable specimen is the Jerome (Gove Co.), Kansas, meteorite weighing 65 pounds. On the occa-



sion of the Yale Bicentennial celebration, the collection of meteorites brought together by Professor Hubert A. Newton during the latter part of his life, was presented to the Museum by his daughters as a memorial of him. This collection numbers about one hundred falls, and includes many rare specimens, a number of which are not otherwise represented in the Museum. The collection has not only a large intrinsic value, but is also particularly interesting because of the contributions which Professor Newton made to the knowledge of Meteoric Astronomy. The specimens are preserved together in a special case. A case in the center of the room contains a large and beautiful collection of Chinese artistic work in stone, chiefly in jade and agate, with other like objects, bequeathed by Dr. S. Wells Williams, who was for forty-three years in China and for some years before his decease was the Professor of Chinese in the University. Two adjacent rooms on this floor are used for the mineralogical and geological laboratories.

The second floor is given up to Paleontology. The southern exhibition room contains vertebrate fossils. These collections were mainly made by Professor Marsh, in the Rocky Mountain region and other parts of the West, and presented to the University. His portrait is on the wall above the entrance. As one enters this room the first object to attract attention is the gigantic pelvis and hind limbs of the thunder saurian (*Brontosaurus*), one of the largest of the Dinosaurs. To the left, in the center of the room, is a large slab containing the skeleton of a Cretaceous Dinosaur (*Claosaurus*), measuring more than twenty-nine feet in length by thirteen feet in height. Adjoining in a small vertical case is shown the mounted skeleton of an early Eocene Creodont (*Dromocyon*) related to the Dog family. Close by is the skeleton of the largest and oldest known marine turtle (*Archelon*), from the late Cretaceous rocks of South Dakota. It measures nearly eleven feet in length and the turtle is estimated to have

weighed when alive not far from three and one-half tons. In the large central case against the south wall are two fine skulls and the vertebral column of *Triceratops*, a large Dinosaur having a monstrous head with three horns, also from the Cretaceous of Wyoming. In the same case is a series of models showing these animals in the flesh and the changes the head has undergone during geological time. A still larger head of a very closely related animal may be seen on the floor in front of the pterodactyl. On the other side of the central area, a large slab of chalk is seen, with the skeleton, as found, of a fish-eating marine reptile, and nearby a life-sized restoration of the great flying reptile or pterodactyl (*Pteranodon*), both from the chalk deposits of Kansas. Near the entrance of the room, again, in the first table case on the left and the wall case just back of it are shown many fossil fishes from the oldest to the more recent. The other wall cases on this side of the room illustrate the evolution of the elephants (a complete skeleton of *Mastodon* from the state of New York has to be shown on the third floor for want of room here), and contain specimens of the fish-eating reptiles (*Ichthyosaurus*), crocodiles, and turtles. On the top of the corner case is one of the largest fossil birds known to geologists (*Dinornis*), from New Zealand. On the other side of the room, in one of the table cases, is a skeleton of a Dinosaur from the Connecticut River sandstone, near Manchester, Connecticut, besides fossil birds (*Hesperornis* and *Ichthyornis*). The other table case has fossil horse remains, beginning with small forms no larger than a fox, with three or four toes, and ending in the existing horse, with one toe on each foot. In the wall cases of this side of the room are shown many skulls of Mammals, some very large, from the Tertiary of Dakota and Nebraska; also remains of the large plated Dinosaur *Stegosaurus*.

Of the large collection of foot-prints belonging to the University, only a few fine slabs are on exhibition. These are on the north and east walls above the cases. One of

the most interesting is a slab about twelve feet long, covered throughout with raindrop impressions and with two series of foot-prints of biped reptiles.

The western exhibition room is occupied by a collection of plant and invertebrate fossils. On the lower floor the fossils are arranged according to affinity, and in the gallery there is to be a collection arranged stratigraphically or according to age. The first two alcove cases on the south are devoted chiefly to fossil sponges. Then follow two cases of corals. The succeeding eighteen alcove cases contain crinoids, starfishes, brittlestars, echinoids, worms, bryozoans, brachiopods, mollusca, and crablike animals. The table cases contain trilobites and insects. Along the east wall are shown three large slabs of crinoids, or feather-star animals. The largest of these slabs is unique, and is from the Lower Devonian formation, near Syracuse, New York ; another is from the Lower Carboniferous at Crawfordsville, Indiana, and the third from the chalk deposits of Kansas. In this room are also shown many large Cycad trunks from the Black Hills of South Dakota, plants related to the living sago palms.

The third story is occupied with the zoological collections, so far as there is room for their exhibition. The general zoological collection, nearly the whole of which has been accumulated since Professor Verrill took charge of the department, occupies the western room. The specimens are well arranged for exhibition and all labelled. Facing the south door stands a vertical case devoted to the sponges, among which are many species of the siliceous or glass sponges (*Euplectella*, etc.). Beyond the sponges, twelve cases are filled with the collection of corals, which is one of the most extensive in the country. These are followed by the echinoderms, etc. Several cases are devoted to a nearly complete collection of the marine invertebrates of New England. Other cases contain special collections of the shells and corals of the Pacific Coast of America, of the corals of Bermuda, of the shells

of Florida, etc. The collections are rich in species from the deep-sea dredgings in the Atlantic, but only a small part is on exhibition. Overhead are models of two of the huge Cephalopods of the world: one, of an Octopus from California, is twenty-eight feet in diameter (between the tips of the opposite arms); the other, of a species of the Newfoundland seas, related to the squids, has enormous eyes, and a length, from the posterior extremity to the tips of the longer arms, of forty-two feet. The models were made for the zoological department by Mr. J. H. Emerton.

The southern exhibition room of the third floor contains a collection of skeletons in cases on its east and south sides, beginning near the door. These were presented by Professor Marsh. The skeletons of mammals, beginning with man and the apes, occupy all the east side, being followed by the birds, reptiles, and fishes. The rest of the cases are occupied with collections of vertebrates, including a nearly complete series of the species inhabiting New England.

The second and third stories have also large laboratories and workrooms, devoted to the department represented in the exhibition rooms of the same floor. Those of the second or geological story are in charge of Professor Schuchert; and of the third or zoological story, besides serving for workrooms, are for the laboratory exercises and instruction of students in General Zoology. These rooms contain also large collections of specimens arranged in drawers and trays, which are open to special students in the department.

In the fourth story is a large Anthropological collection, much of which was presented to the University by Professor Marsh. The arranged collections comprise: a classified series of objects representing the Stone Age; the Egyptian collections received from the Egyptian Exploration Fund and the Barringer collection; the collection of Indian basketry made by Mr. and Mrs. William

H. Moseley; the Benjamin Hoppin collection from Greenland, and other smaller series. The remaining rooms on the fourth floor and in the attic are in use for storage purposes.

The basement is devoted to workrooms and storerooms, and contains a very large number of specimens, especially in the departments of Paleontology and Zoology. This part of the building is closed to visitors.

The exhibition rooms are open from 9.00 A. M. to 6.00 P. M., except in the winter, when the hours are from 9.00 A. M. to 5.00 P. M. The janitor of the building is Mr. Theodore Dietrichsen, 92 High street. The rooms are also open Sunday afternoons from November to May.

## THE OBSERVATORY

### BOARD OF MANAGERS

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### OFFICERS

WILLIAM LEWIS ELKIN, PH.D., *Director*

ROBERT BROWN, M.A., *Secretary, Emeritus*

FREDERICK LINCOLN CHASE, PH.D., *Assistant Astronomer*

MASON FOOTE SMITH, PH.B., *Assistant*

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The OBSERVATORY was built from the avails of the gift of the late Hon. Oliver F. Winchester, of New Haven, on land given by the late Mrs. Cornelia L. Hillhouse and her daughters. The principal astronomical instruments now in use are a six-inch Heliometer constructed by Messrs. Repsold, of Hamburg, an eight-inch Equatorial by Messrs. Grubb, of Dublin, given by the late Mr. Edward M. Reed, of New Haven, and an equatorially mounted set of Cameras for photographing meteors.

Besides its ordinary astronomical work, the Observatory maintains two public services. Continuous time-signals are transmitted from the distributing clock at the Observatory to the railroads and elsewhere. The Observatory offers facilities also to persons interested in accurate thermometry for the comparison of thermometers with standard instruments.

For the proper performance of these services the following equipment is in use :

1. Standard clocks, a transit instrument, chronographs, and the accessories for refined accuracy in the determination and transmission of time.

2. Apparatus for research and comparison in thermometry, including a collection of the best thermometers obtainable of the foreign makers and observatories which devote special attention to thermometric standards.

Descriptive circulars of the thermometric service may be obtained by addressing the Observatory.

By the will of Professor Elias Loomis, who died in 1889, the Observatory receives one-third of the income, and will ultimately receive the entire income, of a fund established by him and called the *Loomis Fund*. The income received is to be applied to one or more of the following objects only, namely, the payment of the salaries of observers whose time is exclusively devoted to the making of observations for the promotion of the science of astronomy, the reduction of astronomical observations, and the defraying of the expense of publishing these observations and of publishing investigations based upon astronomical observations. The principal of the Loomis Fund is over three hundred thousand dollars.

## THE BOTANICAL GARDEN

JAMES WILLIAM TOUMEY, M.A., M.S., *Director*

JOHN HILL MURRAY, *Head Gardener*

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The BOTANICAL GARDEN was established in 1900 on the estate of the late Professor Othniel C. Marsh, who bequeathed his place to the University for this purpose. Professor Marsh was deeply interested in trees, shrubs, and flowers, and by the extensive plantings, particularly of trees and shrubs, laid the foundation of the present Botanical Garden.

No serious attempt has as yet been made to introduce a large variety of exotic and indigenous herbaceous species such as are found in the larger Botanical Gardens of the country, although additional plants are introduced as funds are available.

Approximately 200,000 plants of coniferous species are growing in the forestry nursery. For the most part these are one- and two-year old seedlings of white pine. The Garden serves an important purpose in training the students in nursery practice.

The usefulness of the Garden to the various Departments of the University is continually increasing. To it the care of Sachem's Wood and other land possessions of the University is entrusted. One of the important features of the work during the year has been the spraying and pruning of the campus trees and the street trees adjacent to University property. The Garden has also had charge of the improvement of the grounds at the Infirmary.



## THE UNIVERSITY CHURCH

The privileges of THE CHURCH OF CHRIST IN YALE UNIVERSITY are extended to all students of the University. The services, except for the monthly University services in Woolsey Hall, are held in the BATTELL CHAPEL, a building completed in 1876, and erected mainly through the generosity of Mr. Joseph Battell of New York City.

The services in the Chapel are threefold:

(1.) PRAYERS are held daily (Sunday excepted) at 8.10 A. M. The attendance of all students in the Academical Department is required. The services, which consist of Reading of the Scriptures, Prayer, and Singing, are conducted this year by the following officers of the University:

President Hadley.

Dean Wright.

Professor Bacon.

Professor Perrin.

Professor Phelps.

Professor Reed.

Mr. Stokes.

Professor Walker.

Professor H. B. Wright.

(2.) PUBLIC WORSHIP is held every Sunday at 10.30. Attendance of students in the Academical Department is required, unless they obtain special permission from the Dean to worship elsewhere. Appointments for the Sunday services are made by a Joint Committee of the Corporation and Faculty, who endeavor to select as preachers those who, by their daily contact with active life and their knowledge of young men, are especially fitted to reach and influence a College audience. The income of the Chittenden Professorship of Divinity fund is at present used to maintain the Sunday preaching, the preachers having also pastoral duties in connection with their work. The preachers for the year, as far as definitely arranged at the date of the publication of this Catalogue, are as follows :

## 1908.

- Sept. 27. President Hadley.
- Oct. 4. Rev. Professor Edward C. Moore, PH.D., D.D., of Harvard University.
- Oct. 11. John R. Mott, M.A., Secretary of the World's Student Christian Federation, New York City.
18. Rev. Henry Hallam Tweedy, Bridgeport, Conn.
25. Rev. George Hodges, D.D., Dean of the Episcopal Theological School, Cambridge, Mass.
- Nov. 1. Rev. Professor Edward C. Moore, PH.D., D.D., Harvard University.
8. Rev. Professor Ambrose W. Vernon, D.D., Yale University.
15. Rev. Endicott Peabody, D.D., Groton School, Groton, Mass.
22. Rev. William R. Richards, D.D., New York City.
29. Professor George H. Palmer, LL.D., Litt.D., Harvard University.
- Dec. 6, 13. Rev. Lyman Abbott, D.D., LL.D., Editor of The Outlook, New York City.

## 1909.

- Jan. 10. Rev. Joseph H. Twichell, M.A., Hartford, Conn.
17. Rev. Henry Sloane Coffin, D.D., New York City.
24. Rev. Herbert L. Willett, PH.D., Dean of the Disciples Divinity House, Chicago, Ill.
31. Rev. Bishop William F. McDowell, D.D., Chicago, Ill.
- Feb. 7. Rev. Charles H. Parkhurst, D.D., New York City.
14. Rev. Elwood Worcester, D.D., Boston University.
21. Rev. Hugh Black, D.D., Union Theological Seminary, New York City.
28. Robert E. Speer, M.A., Secretary of the Presbyterian Board of Foreign Missions, New York City.
- March 7. Rev. Professor Francis G. Peabody, D.D., Harvard University.
28. Rev. Stewart Holden, D.D., London, England.
- April 18. Rev. Charles E. Jefferson, D.D., New York City.
25. Rev. Canon Hensley Henson, D.D., London, England.
- May 2. Rev. William Douglas Mackenzie, D.D., President of the Hartford Theological Seminary, Hartford, Conn.
9. Rev. Marion LeRoy Burton, PH.D., Brooklyn, N. Y.
16. Rev. Professor Ambrose W. Vernon, D.D., Brookline, Mass.

- May     23. Rev. Leighton Parks, D.D., New York City.  
         30. Rev. George A. Gordon, D.D., Boston, Mass.
- June     6. Rev. Henry Sloane Coffin, D.D., New York City.  
         13. Rev. James G. K. McClure, D.D., President of the  
              McCormick Theological Seminary, Chicago, Ill.  
         20. Rev. President William H. P. Faunce, D.D., Brown  
              University.  
         27. President Hadley.

(3.) A COMMUNION SERVICE is held on the first Sunday of each month in term time. It is conducted by the Acting Pastor of the University Church, Rev. Professor Bacon, assisted by the preacher of the morning. The invitation to it is extended by the President to "all who have professed and would profess themselves followers of the Lord Jesus Christ."

## THE INFIRMARY

THE YALE INFIRMARY is situated on Prospect street in a healthful and beautiful part of the city. It was built in 1892 at a cost of about forty thousand dollars, raised by subscription among friends of the University. An extension costing fifteen thousand dollars, the gift of Mrs. Charles P. Taft, of Cincinnati, was added in 1906. One dollar is charged on the Treasurer's bill for each day that a student remains in the Infirmary. Beginning in September, 1909, this charge will be one dollar and a half for each day. A competent matron and nurse are in residence, but the choice of physician rests with the patient.

## THE DINING HALL

THE YALE DINING HALL, situated in University Hall and containing seats for nearly twelve hundred persons, furnishes board at cost to members of the University. Each boarder is charged three dollars and a quarter per week, which pays for linen, service, tea, coffee, cocoa, bread, butter, milk, and vegetables. In addition there is an *à la carte* service from which anything in season may be ordered, to be paid for extra. A vegetarian may live well on the fixed charge of three dollars and a quarter per week ; a reasonable amount of meats may be added for one dollar and a half per week. The bills for board of students are rendered and payable monthly. Meals will be furnished to visiting graduates, and to friends of the regular boarders, at a reasonable rate. Application for board should be made at the office of the Superintendent, at the east end of University Hall.

## THE GYMNASIUM ADVISORY COMMITTEE

LEE MCCLUNG, M.A.

WALTER CAMP, M.A.

WILLIAM GILBERT ANDERSON, M.D., M.A., *Director*

EUGENE LAMB RICHARDS, M.A.

JOHN EDWARD HEATON, Esq.

LAFAYETTE BENEDICT MENDEL, Ph.D.

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The GYMNASIUM, presented by graduates to the University in 1892, is located on Elm street, between York and High. It is one of the largest buildings in the country devoted exclusively to gymnastics and athletics, having a frontage of one hundred and thirty-eight feet, a depth of eighty-six feet, and a height of four stories. The equipment is most complete and includes the best devices from the German and Swedish gymnasia, as well as the American developing appliances. The porte-cochère leads to a large "gymnasium lot," which may be used for out-of-door sports.

The basement contains the heating, ventilating, drying, and pumping apparatus, as well as the bowling alleys, shower baths, and special rooms for the football and baseball teams.

On the first floor are the rowing tanks, handball courts, dressing rooms and shower baths for visiting teams, crew rooms, and service quarters for the janitors.

The second floor contains the principal dressing rooms with about one thousand lockers, improved shower baths, wrestling, fencing and boxing rooms, and the offices of administration.

The trophy room occupies the eastern portion of the second floor, and is reached by the large marble staircase from the main entrance off the porte-cochère.

The main hall or exercise room (11,000 square feet) occupies the third and fourth floors. It is remarkably well lighted, and is heated and ventilated by special air conduits.

The Director of the Gymnasium is a trained physician who has made a study of physical education and hygiene. With him are associated a Medical Assistant who is always present at the gymnasium, and an Instructor in gymnastics who will be found on the main floor from 9.30 A. M. to 12.00 M. and from 2.00 to 6.00 P. M. daily.

The gymnastic training is designed to be progressive from year to year. The members of the different classes may take exercises in the various forms of gymnastics under the supervision of the Director, and any student may enter the classes in general gymnastics. Instructors are always present in the main exercise-hall to direct individual or class work. All students requiring such care are assigned exercises suited to their special needs.

A thorough physical examination and measurement is offered each student yearly, and a record of the results is kept as a basis of advice as to exercise and regimen. An examination of these records shows that the standard of health of the average student improves during his college course.

For the welfare of the students the following rule has been passed by the Corporation :

Required that every man who presents himself for exercise in the gymnasium, or who desires to use its privileges, should first submit to a physical examination by the Medical Director; or, in default of such an examination, should bring from his physician a written certificate (the form to be furnished by the Director) that he is physically sound, or a written certificate from his parent or guardian that he wishes the student excused from the examination and that he himself will take the responsibility of exercise without a previous examination.

Special attention is paid to the art of swimming. All Freshmen who cannot swim are given lessons free of charge. It is expected that the new Carnegie Swimming

Pool will be ready in the spring of 1909. It will be the most complete of its kind, and will have an amphitheater for spectators seating one thousand persons.

During the months of October and November a course of lectures on health topics is given members of the Academical Freshman class, attendance being compulsory, by several members of the faculty who have made a specialty of personal health and hygiene. All members of the Scientific Freshman class are invited to attend these lectures.

The Gymnasium is open from 9.30 A. M. to 6.30 P. M.

A charge for the use of the Gymnasium is included in the term bills of students in the Academical Department and Sheffield Scientific School. Students of other Departments may use the Gymnasium upon payment of the regular fee of five dollars.

## THE ATHLETIC FIELD

WALTER CAMP. M.A., *Treasurer*

The Athletic Grounds of the University, known as the YALE FIELD, are open to the students of all departments. In 1880 the project was advanced of securing a suitable field where the students might obtain the physical exercise so conducive to health and to the best mental effort. A committee consisting partly of graduates and partly of undergraduates was then formed, and it was decided to purchase a tract of land, consisting of some thirty acres, lying just beyond the Orange town line, and a mile from the Campus. Subscriptions were started, and in March, 1881, the field was purchased, the cost being about twenty-two thousand dollars for the land itself, and thirty-one thousand dollars more for its immediate grading and preparation. It was necessary, in addition to subscriptions, to borrow an amount of twenty-one thousand dollars. The field thus purchased lies on the bank of West River on a bluff some forty feet above the river bed and extending westward. Just beyond it rises Edgewood Hill, and to the north stands West Rock, while towards the south is Long Island Sound, and east is the city and the University. The trolley cars pass the gate.

One of the original articles of incorporation provided for the turning over of the field to the University, and it was towards this end that the Yale Field Corporation worked for many years. It was impossible that the University should accept the property while it was mortgaged or in debt. The final payment on the eight thousand dollar mortgage was at last accomplished and the field deeded over to the University,—a property representing an original expenditure of some fifty-three thousand dollars, to which, for maintenance and improvements, a sum of about one hundred thousand dollars has been added, the bulk of which has come from the athletic associations in gate receipts.



The articles under which the Corporation was formed provide that the grounds shall be managed by persons connected with Yale University for athletic games and exercises, and for out-door recreation. The purpose is also to encourage such games, exercises, and recreation in the University, and to take, buy, own, and hold property necessary or proper therefor. The University, having taken over the property, will see that the purposes for which it was purchased are duly protected and the athletic interests properly conserved.

The Yale Field has several baseball and football fields, a quarter-mile running track with a 220-yard straight away, football grandstands accommodating over 30,000 people, and a covered baseball stand seating over 3,000. There is a small section to the southwest not yet fully graded which will be made available for athletic purposes as soon as funds can be provided.

## THE YALE UNIVERSITY CHRISTIAN ASSOCIATION

The headquarters of the Academical, Graduate, Law, and Medical Departments of the YALE UNIVERSITY CHRISTIAN ASSOCIATION are in Dwight Hall, which was erected in 1886 through the generosity of Mr. Elbert B. Monroe, of Southport, Connecticut. Dwight Hall is a stone building situated on the College Square and is admirably adapted to be the center of the religious and social life of the University. It contains a convenient reading room, a grill room, a pool and billiard room, a library, an auditorium for general religious services, separate rooms for the Bible classes and prayer meetings of the various College classes, as well as quarters for the University General Secretary and the Academical General Secretary.

The Secretaries, who are recent graduates, are elected annually and have immediate supervision respectively of the graduate and professional schools and such Association work as is common to all the University, and of such as relates to the Academical Department exclusively. The Academical General Secretary has immediate supervision of the building.

The "management and control" of Dwight Hall rest, in accordance with the expressed wish of the donor, in the Corporation of the University. There is, however, a Graduate Advisory Committee known as the Board of Directors, elected by the members of the Association and consisting at present of the following: Mr. William Sloane, '95 (term expires 1913), Chairman; Mr. E. S. Harkness, '87 S. (term expires 1909), Secretary; Mr. S. H. Fisher, '89 (term expires 1910), Treasurer; and Messrs. R. C. Morse, '62 (term expires 1912), J. B. Reynolds, '84 (term expires 1910), M. H. Bowman, Jr., '05 S. (term expires 1911), and V. C. McCormick, '93 S. (term expires 1908). The actual

planning and carrying out of the organized religious work of the University is in the hands of the various executive committees of the different departments of the Association. This work consists of classes for Bible study and the study of missions, and of meetings for prayer; deputations to preparatory schools, colleges, and churches; aid for new students in obtaining board and rooms; the conduct of city missions, Sunday schools, and boys' clubs; together with other philanthropic and church supply work. The class Deacons of the Academical Department, elected by the members of each class in Sophomore year, and the class Deacons of the Sheffield Scientific School, elected by the members of each class at the end of Freshman year, assume the general direction of the religious work in their classes, while for special activities committees are appointed.

The headquarters of the Sheffield Association are on the second floor of Byers Memorial Hall (see pages 295-96). An auditorium, a carefully selected library, and separate class rooms are devoted to the various uses of the Association. There are also on this floor quarters for the Sheffield Scientific School General Secretary.

The different departments of the Association are bound together by a University Council composed of the chief officers of the departments.

## **THE YALE STATION, UNITED STATES POST OFFICE**

The YALE STATION, a branch of the New Haven Post Office, was established October 1, 1900, for the purpose of affording the best possible mail service for members of Yale University. The office is equipped with one thousand lock boxes, there being no carrier delivery. Each college room is assigned a lock box for which a nominal rental is charged on the term bill. Members of the University residing outside of the dormitories may be assigned a box upon application to the Superintendent of the Station, Mr. Thomas F. Clark. All box holders are obliged to procure a box key. There are five mails received and the same number despatched each week day, one on Sunday and two on legal holidays. These mails are arranged to meet the important trains. The schedule of arrival and departure of mails can be found on the official bulletin-board in the Post Office corridor.

The office conducts all branches of the postal service and is entitled to all the privileges of a first-class office, including the sale of stamps and stamped paper, a registered mail department, and postal money order service, both domestic and international.

The station is located in Fayerweather Hall, and is central to all departments of the University.

## THE BUREAU OF APPOINTMENTS

### ADVISORY COMMITTEE

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ANSON PHELPS STOKES, JR., M.A.

HENRY PARKS WRIGHT, PH.D., LL.D.

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HERBERT EUGENE SMITH, M.D.

HENRY WADE ROGERS, LL.D.

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C. L. KITCHEL, M.A., B.D., *Secretary of the Bureau*

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The BUREAU OF APPOINTMENTS represents all the agencies and opportunities which the University affords in its various departments and activities by which students of insufficient means obtain compensation for services rendered. It is open to students in any Department of the University. The office is at 4 Phelps Hall.

The work of the Secretary of the Bureau is to obtain employment for students of the University and for graduates, and the assignment of beneficiary aid to students in the Academical Department. All students who desire employment in order to assist in paying their way may leave their names at this Bureau, and all persons who have work of any sort which students can do are requested to leave their orders here. Students who are about to graduate, and graduate students who desire positions especially as teachers, should apply to this bureau, where also applications for teachers may be made. Also those students in the Academical Department who need abatement of tuition should make application for it to this Bureau before October fifteenth in each year of the College course.

A pamphlet, entitled "Self-Help at Yale," giving an account of the various means by which students help work their own way through college, will be sent on application.

## **ALUMNI ASSOCIATIONS**

### **UNIVERSITY ALUMNI ASSOCIATIONS**

#### **Alabama, Yale Alumni Association of**

*President*, Hon. A. A. Coleman, Court House, Birmingham, Ala.

*Secretary*, Paul A. Savage, 1st Nat. Bank Bldg., Birmingham, Ala.

#### **Boston, Yale Club of**

*President*, Samuel J. Elder, LL.D., Pemberton Bldg., Boston, Mass.

*Secretary*, Charles Stetson, 60 State st., Boston, Mass.

#### **Bristol, Yale Club of**

*President*, Arthur S. Brackett, M.D., 19 Sessions st., Bristol, Conn.

*Secretary*, Thomas A. Tracy, 156 Pond st., Bristol, Conn.

#### **Central California, Yale Alumni Association of**

*President*, Samuel Knight, 1111 Merchants Exchange Bldg., San Francisco, Cal.

#### **Central and Western Massachusetts, Yale Alumni Association of**

*President*, Alfred L. Aiken, 365 Main st., Worcester, Mass.

*Secretary*, Edward O. Sutton, 47 Ridgeway terrace, Springfield, Mass.

#### **Central Ohio, Yale Alumni Association of**

*President*, Henry T. Chittenden, Columbus, O.

*Secretary*, William H. Page, 1068 Franklin av., Columbus, O.

#### **Central Pennsylvania, Yale Alumni Association of**

*President*, Lyman D. Gilbert, 502 Bergner Bldg., Harrisburg, Pa.

*Secretary*, Henry M. Gross, 23 N. Front st., Harrisburg, Pa.

#### **Chicago, Yale Club of**

*President*, Hon. Henry V. Freeman, 5760 Woodlawn av., Chicago, Ill.

*Secretary*, George B. Carpenter, 149 Plymouth pl., Chicago, Ill.

#### **China, Yale Alumni Association of**

*President*, Taotai Mun Yew Chung, China Merchants Steam Navigation Co., Shanghai, China.

#### **Cincinnati, Yale Club of**

*President*, Guy W. Mallon, Carlisle Bldg., Cincinnati, O.

*Secretary*, Oliver S. Bryant, 1st National Bank Bldg., Cincinnati, O.

#### **Cleveland, Yale Alumni Association of**

*President*, Perry W. Harvey, 881 Case av., Cleveland, O.

*Secretary*, Fayette Brown, Jr., 757 Euclid av., Cleveland, O.

## Colorado, Yale Alumni Association of

*President*, Ernest Knaebel, 1040 Josephine st., Denver, Colo.

*Secretary*, Peter H. Holme, 520 Equitable Bldg., Denver, Colo.

## Delaware, Yale Alumni Association of

*President*, Hon. Anthony Higgins, 834 Market st., Wilmington, Del.

*Secretary*, W. Poyntell Johnston, 4 W. 9th st., Wilmington, Del.

## Dixon Yale Club

*President*, Bradford Brinton, Dixon, Ill.

*Secretary*, Douglas Harvey, Dixon, Ill.

## Erie, Yale Alumni Association of

*President*, Davenport Galbraith, 259 W. 6th st., Erie, Pa.

*Secretary*, R. W. Griswold, 231 W. 10th st., Erie, Pa.

## Essex County, Yale Alumni Association of

*President*, Hon. Austen Colgate, 53 John st., N. Y. City.

*Secretary*, Andrew S. Taylor, 103 Scotland road, South Orange, N. J.

## Fairfield County Yale Alumni Association

*President*, Hon. George W. Wheeler, Bridgeport, Conn.

*Secretary*, George E. Hill, 3 Sanford Bldg., Bridgeport, Conn.

## Florida, Yale Alumni Association of

*Secretary*, Russell E. Colcord, 31 Monroe pl., Brooklyn, N. Y.

## Fulton and Montgomery Counties, Yale Alumni Association of

*President*, Francis C. Pratt, General Electric Co., Schenectady, N. Y.

*Secretary*, Robert H. Parker, General Electric Co., Schenectady, N. Y.

## Georgia, Yale Alumni Association of

*President*, C. Morris Brandon, 488 Peachtree st., Atlanta, Ga.

*Secretary*, William J. Tilson, 1201 Century Bldg., Atlanta, Ga.

## Hartford Yale Alumni Association

*President*, Francis Parsons, 62 Pearl st., Hartford, Conn.

*Secretary*, Lucius B. Barbour, 438 Asylum st., Hartford, Conn.

## Hawaii, Yale Alumni Association of

*President*, Hon. William L. Alexander, LL.D., Box 732, Honolulu, H. I.

*Secretary*, Charles F. Clemons, Box 626, Honolulu, H. I.

## Indiana, Yale Alumni Association of

*President*, Merrill Moores, 1025 Law Bldg., Indianapolis, Ind.

*Secretary*, William K. Stewart, 707 N. Illinois st., Indianapolis, Ind.

## Iowa, Yale Alumni Association of

*President*, Hon. Oliver P. Shiras, Dubuque, Iowa.

*Secretary*, Wallace R. Lane, Crocker Bldg. Des Moines, Iowa.

**Japan, Yale Association of**

*President*, Marquis Hiroboumi Ito, LL.D., Tokyo, Japan.

*Secretaries*, Prof. John T. Swift, Tokyo Higher Normal School,  
Tokyo, Japan.

Taro Yamada, *Japan Times*, Tokyo, Japan.

**Kansas City, Yale Alumni Association of**

*President*, Thomas R. Morrow, 301 1st Nat'l Bank Bldg., Kansas  
City, Mo.

*Secretary*, Porter B. Godard, 607 N. Y. Life Bldg., Kansas City,  
Mo.

**Kentucky Yale Alumni Association**

*President*, Col. Morris B. Belknap, Louisville, Ky.

*Secretary*, Gilbert S. Cowan, 435 W. Main st., Louisville, Ky.

**Long Island Yale Alumni Association**

*President*, Hon. William B. Davenport, 189 Montague st., Brook-  
lyn, N. Y.

*Secretary*, Morris U. Ely, 2 Rector st., N. Y. City.

**Louisiana Yale Alumni Association**

*Secretary*, Harry H. Clark, Round Table Club, Jackson av., New  
Orleans, La.

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*President*, J. H. Mason Knox, Jr., Ph.D., M.D., 804 Cathedral st.,  
Baltimore, Md.

*Secretary*, Albert H. Buck, The Arundel, Baltimore, Md.

**Meriden Yale Alumni Association**

*President*, Edward T. Bradstreet, M.D., 170 Colony st., Meriden,  
Conn.

*Secretary*, Charles T. Dodd, 79 Colony st., Meriden, Conn.

**Michigan, Yale Alumni Association of**

*President*, Nathan G. Williams, Detroit Twist Drill Co., Detroit,  
Mich.

*Secretary*, George B. Perry, Moffatt Bldg., Detroit, Mich.

**Nebraska Yale Alumni Association**

*President*, Prof. Erwin H. Barbour, Ph.D., 1234 R st., Lincoln,  
Nebr.

*Secretary*, Harold C. Evarts, Nebraska Telephone Co., Omaha,  
Nebr.

**New York City, Yale Club of**

*President*, James R. Sheffield, 120 Broadway, N. Y. City.

*Secretary*, J. McLean Walton, 358 5th av., N. Y. City.



**Northeastern New York, Yale Alumni Association of**

*President*, John K. Howe, 37 State st., Albany, N. Y.

*Secretary*, Hewlett Scudder, Jr., General Electric Co., Schenectady, N. Y.

**Northeastern Pennsylvania, Yale Alumni Association of**

*President*, Everett Warren, 603 Connell Bldg., Scranton, Pa.

*Secretary*, Charles H. Welles, Jr., 322 Connell Bldg., Scranton, Pa.

**Northwest, Yale Alumni Association of the**

*President*, Burnside Foster, M.D., 90 Lowry Bldg., St. Paul, Minn.

*Secretary*, Edwin White, 236 Endicott Bldg., St. Paul, Minn.

**Onondaga Yale Alumni Association**

*President*, Charles W. Bardeen, 315 E. Washington st., Syracuse, N. Y.

*Secretary*, Joseph C. Palmer, M.D., 201 Seymour st., Syracuse, N. Y.

**Oregon Yale Alumni Association**

*President*, N. E. Ayer, Portland, Oregon.

*Secretary*, John D. Carson, 6 N. Front st., Portland, Oregon.

**Philadelphia, Yale Alumni Association of**

*President*, Robert D. Maxwell, 810 Penn Sq. Bldg., Philadelphia, Pa.

*Secretary*, Alexander H. Carver, 212 Stephen Girard Bldg., Philadelphia, Pa.

**Pittsburg, Yale Alumni Association of**

*President*, Thomas S. Arbuthnot, M.D., 5th av., Pittsburg, Pa.

*Secretary*, A. Rex Flinn, No. Highland av., Pittsburg, Pa.

**Plainfield Yale Club**

*President*, Edward A. Stevenson, Plainfield, N. J.

*Secretary*, Lewis A. Williams, Jr., 104 E. 9th st., Plainfield, N. J.

**Reading, Yale Club of**

*President*, Herbert R. Green, 612 Washington st., Reading, Pa.

*Secretary*, Frederic R. Stauffer, 1513 Hill road, Reading, Pa.

**Rhode Island, Yale Alumni Association of**

*President*, Hon. LeBaron B. Colt, 105 Waterman st., Providence, R. I.

*Secretary*, Rush Sturges, 15 Westminster st., Providence, R. I.

**Rochester, Yale Alumni Association of**

*President*, Albert R. Pritchard, 4 Argyle st., Rochester, N. Y.

*Secretary*, Joseph A. Farley, 287 Lake av., Rochester, N. Y.

**Savannah Yale Club**

*President*, Rev. Charles H. Strong, 503 Whitaker st., Savannah, Ga.

*Secretary*, Wayne Cunningham, 118 E. 36th st., Savannah, Ga.

**Seattle Yale Club**

*President*, Charles E. Shepard, 614 N. Y. Block, Seattle, Wash.

*Secretary*, John F. Tenney, 715 N. Y. Block, Seattle, Wash.

**St. Louis, Yale Alumni Association of**

*President*, George C. Hitchcock, Wainwright Bldg, St. Louis, Mo.

*Secretary*, George V. Reynolds, 617 Roe Bldg., St. Louis, Mo.

**South Carolina, Yale Alumni Association of**

*President*, John C. Simonds, Jr., 29 E. Battery st., Charleston, S. C.

*Secretary*, Henry Buist, 30 Broad st., Charleston, S. C.

**Southern California, Yale Alumni Association of**

*President*, Francis B. Kellogg, M.D., 618 Temple Auditorium,  
Los Angeles, Cal.

*Secretary*, Charles M. Latimer, 2516 E. 1st st., Los Angeles, Cal.

**Tennessee Yale Alumni Association**

*President*, Hon. H. H. Ingersoll, Knoxville, Tenn.

*Secretary*, Prof. Charles S. Brown, Vanderbilt University, Nash-  
ville, Tenn.

**Texas Yale Association**

*President*, Alexander S. Cleveland, Commerce st., Houston, Texas.

*Secretary*, William M. Jones, 314 Slaughter Bldg., Dallas, Texas.

**Utica, Yale Club of**

*Secretary*, Nellis M. Crouse, 315 Genesee st., Utica, N. Y.

**Washington, Yale Alumni Association of**

*President*, Hon. Victor H. Metcalf, Washington, D. C.

*Secretary*, George X. McLanahan, D.C.L., Bond Bldg., Wash-  
ington, D. C.

**Westchester County Alumni Association**

*President*, Hon. Frank V. Millard, 52 W. Main st., Tarrytown, N. Y.

*Secretary*, Anson Baldwin, 11 Dudley pl., Yonkers, N. Y.

**Western New York, Yale Alumni Association of**

*President*, George E. Mathews, *Morning Express* Office, Buffalo,  
N. Y.

*Secretary*, William P. Haines, National Lumber Ins. Co., Buffalo,  
N. Y.

**Western Yale Clubs, Associated**

*President*, Hon. William H. Taft, LL.D., Washington, D. C.

*Secretary*, Walter W. Heffelfinger, North Star Shoe Co., Minneap-  
olis, Minn.

**Wisconsin, Yale Alumni Association of**

*President*, Charles S. Sheldon, M.D., Madison, Wisc.

*Secretary*, Philip F. Rogers, M.D., 1114 State st., Milwaukee, Wisc.

**Wyoming Valley Yale Alumni Association**

*President*, J. Butler Woodward, Coal Exchange, Wilkes-Barré, Pa.

*Secretary*, A. A. Beaumont, 54 W. Union st., Wilkes-Barré, Pa.

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**DIVINITY SCHOOL ALUMNI ASSOCIATION**

*President*, Rev. Harry E. Peabody, Hartford, Conn.

**Connecticut Branch**

*President*, Rev. Harry E. Peabody, Hartford, Conn.

*Secretary*, Rev. Raymond G. Clapp, Yale Station, New Haven, Conn.

**Eastern Massachusetts Branch**

*President*, Rev. Edward M. Noyes, Newton Center, Mass.

*Secretary*, Rev. Edgar C. Wheeler, Rockland, Mass.

**New York Branch**

*President*, Rev. Ward T. Sutherland, Wellsville, N. Y.

**Western Massachusetts Branch**

*President*, Rev. Ralph H. White, Cummington, Mass.

**Wisconsin Branch**

*President*, Rev. Prof. William J. Mutch, Ph.D., Ripon, Wisc.

*Secretary*, Rev. Jesse E. Sarles, Viroqua, Wisc.

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**MEDICAL SCHOOL ALUMNI ASSOCIATION**

*President*, Louis M. Gompertz, M.D., 1195 Chapel st., New Haven, Conn.

*Secretary*, John E. Lane, M.D., 203 York st., New Haven, Conn.

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**LAW SCHOOL ALUMNI ASSOCIATION**

*President*, C. LaRue Munson, Elliot Block, Williamsport, Pa.

*Secretary*, Prof. George E. Beers, 42 Church st., New Haven, Conn.



PART V

UNIVERSITY LECTURE COURSES  
AND PRIZES



## UNIVERSITY LECTURES AND CONCERTS

### LECTURE COURSES

In addition to the lectures regularly offered in connection with the Curriculum, there is a large number of LECTURE COURSES given under the auspices of the various University Departments and organizations. These lectures are open to all students of the University.

The LYMAN BEECHER LECTURES ON PREACHING. This lectureship was founded in 1871 by a gift of ten thousand dollars from the late Henry W. Sage, then of Brooklyn, N. Y. It is filled by the appointment, by the President and Fellows, of a minister of the Gospel or a layman, of any evangelical denomination, who has been markedly successful in the work of Christian service. The lecturer for this year is Rev. Herbert Hensley Henson, D.D., Canon of Westminster, London, England.

The SILLIMAN MEMORIAL LECTURES, on subjects connected with "the natural and moral world," were established by the will of the late Augustus Ely Silliman, of Brooklyn, N. Y., who died in 1884. The Mrs. Hepsa Ely Silliman Memorial Fund which supports this lectureship, amounting to eighty-five thousand dollars, did not come into the possession of the University until 1901. The six courses on this foundation have been given by Professor Thomson of Cambridge University, Professor Sherrington of the University of Liverpool, Professor Rutherford then of McGill University, Professor Walther Nernst of the University of Berlin, William Bateson, M.A., F.R.S., of Cambridge University, and Professor Albrecht Penck, Ph.D., Sc.D., of the University of Berlin.

The DODGE LECTURES ON THE RESPONSIBILITIES OF CITIZENSHIP. This lectureship, founded in 1900 by a gift of thirty thousand dollars from William E. Dodge, Esq., of New York City, has as its object the promoting among "students and graduates, and among educated men of the

United States, an understanding of the duties of Christian citizenship and a sense of personal responsibility for the performance of those duties." The Rt. Hon. James Bryce, D.C.L., LL.D., F.R.S., British Ambassador at Washington, is the lecturer for the present year.

**THE TROWBRIDGE LECTURE COURSE.** This course was established in 1899 through a gift of five thousand dollars from Rutherford Trowbridge, Esq., of New Haven. The gift constitutes the Thomas R. Trowbridge Fund. The lectures are given every year in the School of the Fine Arts.

**THE BROMLEY LECTURES ON JOURNALISM, LITERATURE, AND PUBLIC AFFAIRS.** These lectures are provided for by the gift to the University in 1900 of five thousand dollars. It was the wish of the donor, Mrs. Adelaide E. Bromley, that the lectureship should be a memorial to her husband, the late Isaac H. Bromley, of the class of 1853. Two or more lectures are given annually by men of distinction, on subjects connected with Journalism, Literature, or Public Affairs, it being understood that a lecture on Journalism be arranged as often as once in four years. The next lecturer is Mr. Hart Lyman, Editor of the *New York Tribune*.

**THE HARVARD LECTURES** were established in 1905 by the gift of ten thousand dollars from an anonymous Harvard graduate. The income of this fund is to be employed in securing members of the Harvard faculty to give lectures or instruction at Yale. The first lecture on this foundation was given by President Eliot.

**THE DANIEL S. LAMONT MEMORIAL LECTURESHIP** was established in 1906 by the gift of one thousand dollars, the income of which is to be used for an annual lecture on English Letter Writers and Letter Writing, by a member of the English Department of the University.

**THE STANLEY WOODWARD LECTURESHIP FUND**, established in 1907, provides an income which is to be used to



secure occasionally lectures from distinguished foreigners visiting this country. Two lectures on this foundation have been given by Mr. James Fitzmaurice-Kelly, of London, on Spanish Literature, and it is expected that Signor J. W. Rinaldi of Rome will lecture in the spring on "Ceremonies and Customs of the First Centuries of Christianity."

The SHEFFIELD LECTURES (formerly the Mechanics' Course) are provided by the authorities of the Sheffield Scientific School. The subjects cover a broad field, and the lectures are usually illustrated.

The DWIGHT HALL LECTURES, arranged for by the Yale University Christian Association, are given from time to time by men of distinction.

The MEDICAL ALUMNI LECTURES, two in number, are given annually.

The PHI BETA KAPPA Society, the LEONARD BACON CLUB of the Theological School, and the SIGMA XI Society, also arrange for public lectures from time to time.

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The BERKELEY SERMONS are given under the auspices of the Berkeley Association of the University, in one of the Episcopal churches of the city. The list of preachers for this year is as follows:

November 8—Very Rev. W. L. Robbins, D.D., LL.D., Dean of the General Theological Seminary, New York City.

December 13—Right Rev. Frederick Burgess, D.D., Bishop of Long Island.

January 10—Rev. James O. S. Huntington, O.H.C., West Park, N. Y.

February 14—Right Rev. William Walter Webb, D.D., Bishop of Milwaukee.

March 14—Rev. W. G. Thayer, Head Master of St. Mark's School, Southborough, Mass.

April 25—Rev. Endicott Peabody, D.D., Head Master of Groton School, Groton, Mass.

May 9—Right Rev. Chauncey B. Brewster, Bishop of Connecticut.

### CONCERTS

The following opportunities in Music are open to all students of the University on payment of moderate admission fees, which are so adjusted as to meet the unavoidable expenses of such undertakings with as small a margin as possible :

**THE UNIVERSITY CHAMBER CONCERTS.**—Three concerts will be given during the winter months by the Kneisel Quartet of Boston, and one by the Adamowski Trio. The present season is the twenty-second of these concerts.

**FACULTY TRIO CONCERTS.**—Three concerts of chamber music for piano, violin, and violoncello, will be given, by Professors Knight and Troostwyk and Mr. Schulz.

**THE SYMPHONY CONCERTS.**—These concerts, five in number, are given by the New Haven Symphony Orchestra. Programs of classical and modern compositions are played and the assistance of eminent soloists is secured.

**THE ORATORIO SOCIETY CONCERTS.**—At the first of the two concerts of the present season, Professor Horatio Parker's *Hora Novissima* and Rossini's *Stabat Mater*, and at the second concert, Gounod's *Oratorio of the Redemption*, will be sung by the New Haven Oratorio Society.

**ORGAN RECITALS.**—Recitals are given in Woolsey Hall on the Newberry Memorial Organ by Professor Jepson on Monday afternoons during the winter term. Public recitals of selections appropriate to the season are also given this year on the second Sunday afternoon preceding Christmas and Easter.

**ARTIST'S CONCERTS** by musicians of the highest standing are given from time to time.

**STUDENTS' RECITALS.**—Four informal RECITALS by students in the Department of Music are given during the winter term and one concert is given in Woolsey Hall in June, in which advanced students are given an opportunity to perform with orchestra.

## UNIVERSITY PRIZES

The JOHN A. PORTER PRIZE, being the income of a fund of five thousand dollars, established by the Kingsley Trust Association in 1872, is offered annually for the best English essay on a prescribed subject. Any person who is pursuing a regular course for a degree in any Department during the whole of the current College year, may compete for this prize. The award is announced on Commencement Day. If in any year none of the competing essays is of sufficient merit, the prize is not awarded. The subjects for essays in 1909 are as follows :

1. Grover Cleveland.
2. The Value of War.
3. The American Drama.
4. The State of Religion and the State of the Church in the United States.
5. Prohibition and Other Restrictive Liquor Legislation in Recent Years.
6. The Limits of Free Education.

Essays for the John A. Porter Prize should be plainly marked on the outside, "John A. Porter University Essay for 1909," and should be mailed addressed to the John A. Porter University Prize Essay Committee, in care of the Secretary of Yale University, New Haven. Each essay must be typewritten, signed by an assumed name, and accompanied by the author's real name in a sealed envelope. The essays are due on or before May 1, 1909.

The JAMES GORDON BENNETT PRIZE, being the income of a fund of one thousand dollars, given in 1893 by James Gordon Bennett, Esq., of New York City, is awarded annually, on Commencement Day, to that undergraduate member of the Senior class, in either the Academical Department or the Sheffield Scientific School, who shall have pursued courses in Political Science and English Literature and shall have prepared the best essay, in English prose, upon some subject selected by the Faculty

of contemporaneous interest in the domestic or foreign policy of the United States government.

Essays in competition for this prize must be presented at the University Library, Tuesday, June 1, 1909, before 12.00 M. The subject will be "The Conservation of Natural Resources."

The COBDEN CLUB SILVER MEDAL is awarded annually to that undergraduate of either the Academical Department or the Sheffield Scientific School who shows the greatest proficiency in the elements of Political Economy. Subjects for theses the present year are the following :

1. Old Age Pensions.
2. Compulsory Arbitration in Labor Disputes.
3. Relations of the Protective Tariff to the Conservation of Natural Resources.
4. The Economic Effects of an Increased Gold Supply during the Past Ten Years.

A student desiring to substitute another subject for one of those given above must apply for permission to the committee before March 1. Theses are due at the University Library on or before June 1, 1909.

The ALBERT STANBURROUGH COOK PRIZE IN POETRY, of the value of fifty dollars, is offered for the present year by Professor Cook for the best unpublished poem. Competition is open to students of the University in all Departments. If none of the competing poems is of sufficient merit, the prize will not be awarded. Before receiving the prize, the winner must print the successful poem in a manner acceptable to the donor. The poems, each of which should be signed by an assumed name and accompanied by a sealed envelope containing the writer's full name, are due on April 1, and may be handed in at the University Library.

The JACOB COOPER PRIZE IN GREEK PHILOSOPHY, established in 1900 by the gift of five hundred dollars from Professor Albert S. Cook, is awarded in any year by the Professors of Greek and of Philosophy to that student of the University, being a person of high attainments and

ability, who passes the best examination in the *Metaphysics*, *Ethics*, and parts of the *Organon* of Aristotle, and submits the best thesis upon some topic drawn from one of these works and announced publicly at a convenient time in advance.

The GEORGE WASHINGTON EGLESTON HISTORICAL PRIZE, the income of one thousand dollars, founded in 1901 by George Washington Egleston, Esq., of Eardisley, Herefordshire, England, is awarded annually to a student of the University who during the preceding year, by research, has discovered some new fact or facts relating to American History ; or, from existing data, has brought to bear some information, or criticism, sufficiently notable to be useful from a literary point of view.

The PHILO SHERMAN BENNETT PRIZE is the income of a fund of four hundred dollars, given in 1905 by Hon. William J. Bryan as trustee under the will of Philo Sherman Bennett, Esq., of New Haven, for the best essay discussing the principles of free government. The subject for this year will be "The Constitution of Oklahoma." Essays must be typewritten, and must be left at the Secretary's office, Yale University, on or before May 1, 1909. Students in all Departments may compete.



**PART VI**

**DEGREES AND HONORS, 1908**





## DEGREES CONFERRED IN COURSE

### BACHELORS OF ARTS

Albert Parker Abbe  
 Robert Abbott  
 Thomas Achelis  
 Clifton LeBarron Adams  
 Carleton Mansfield Allen  
 Herman Alofsin, 2d  
 Samuel Alpert  
 Frank Altschul  
 Danford Fletcher Alvord  
 William McClure Andrews  
 Gordon Auchincloss  
 James Coates Auchincloss  
 Joseph Howland Auchincloss  
 Albert Edwin Avey  
 Oswald Prentiss Backus, Jr.  
 Everett Lee Baker  
 Donald Campbell Bakewell  
 Samuel Alexander Baldwin  
 Simeon Baldwin  
 Malcolm Sterling Banks  
 Harold Erwin Barnes  
 Earl Morton Barnum  
 David Nye Barrows  
 James Corbett Barry  
 Philip Curtis Kibling Bartlett  
 Chauncey Perry Beadleston  
 Henry Sartwell Beardsley  
 Roderick Beebe  
 William Burke Belknap  
 Shelley Edward Bennett, Jr., B.A.  
     Lincoln College 1907  
 Edward Bennetto, Jr.  
 George Reis Bart Berger  
 Earl Edward Beyer  
 Forrest Beyer  
 Lucius Horatio Biglow, 3d  
 Clifford Hershey Bissell  
 Willard Samuel Bissell  
 Joseph Clarence Black  
 Carl William Blegen, B.A.  
     University of Minnesota 1907

Charles Sherman Bodwell  
 Lewis Samuel Boothe  
 Andrew Linn Bostwick  
 Rowland Sherwood Bosworth  
 Jonathan Sawyer Bradley  
 Caleb Smith Bragg  
 Frank Eugene Bridgett  
 Ralph Shepherd Bromer  
 Wendell Stanton Brooks  
 Baird Broomhall  
 Rollin Broughton, B.A.  
     University of Georgia 1907  
 Hamilton Mabie Brush  
 Richard Beaumaris Bulkeley  
 Nathan Hollister Bundy  
 Hillier McClure Burrowes  
 Ronald Muirhead Byrnes  
 Thomas James Camp  
 Reginald Woodward Catlin  
 Francis Deraismes Childs  
 Hugh Joseph Chisholm, Jr.  
 Clinton Clark  
 Loyal Brown Clark  
 Waldo Park Clement  
 Guy Cory Cleveland  
 Reginald McIntosh Cleveland  
 Philip Hamilton Collins  
 Edward Chester Congdon  
 Raymond Vere Congdon  
 Oscar Henry Cooper, Jr.  
 Starr Gardiner Cooper  
 Leonard Jacob Crawford, Jr.  
 Charles Templeton Crocker  
 Walter Morgan Crunden  
 William Smith Culbertson, B.A.  
     Emporia College 1907  
 Charles Gould Curtiss  
 William Strong Cushing  
 John Dicks Cutter, Jr.  
 George Dahl  
 Edward Stiles Davey

Walter Goodwin Davis, Jr.  
 Lewis Henry DeBaun  
 Sydney Beauclerc DeGolyer  
 Eugene Delano, Jr.  
 Harmar Denny Denny, Jr.  
 John Maurice Deyo  
 Conway Wing Dickson  
 Chandler Diehl  
 Tyson Manzey Dines  
 Courtlandt Palmer Dixon  
 Malcolm Graham Douglas  
 Charles Bigelow Drake  
 Walter Remy Dray  
 Prescott Dudley  
 Samuel Ellis Dunham  
 Charles Meredith DuPuy  
 Arthur Delma Dyess, PH.B.  
     Baylor University 1906  
 Ernest Arthur Eddy  
 Robert Bacon English  
 Joseph Sherman Euans  
 Lewis Charles Everard  
 Haliburton Fales, Jr.  
 Edward Spottiswoode Faust  
 David Ferguson  
 John Elliott Field  
 John Henry Fitzgerald, Jr.  
 Joseph Taylor Foster  
 Thomas Coolidge Fowler  
 Sydney Joseph Frank  
 Leonard Henry Freiberg  
 Sydney Dodd Frissell  
 William Gammell, Jr.  
 John Arthur Gardner  
 Chauncey Brewster Garver  
 Charles Howard Gilbert  
 Frederick Augustus Godley  
 Irving Goldenburg  
 Francis Yarrington Goodell  
 Ralph Edward Goodwin  
 Frank Gosnell, Jr.  
 George Jackson Grammer, Jr.  
 Donald Greene  
 Dwight Torrey Griswold  
 Joseph Thomas Hagan

Jule Murat Hannaford, Jr.  
 Walter Earle Hartley  
 Cornelius DeForest Haskell  
 Richard Withington Hawes  
 Vincent Eugene Healy  
 Frederick Chase Heck  
 Arly Luther Hedrick  
 James Pendleton Helm, Jr.  
 Louis Lee Hemingway  
 William Emanuel Hendricks  
 Joe Martin Higginbotham, Jr., B.S.  
     Baylor University 1907  
 Samuel Newton Holliday, 2d  
 Burton Johnson Hollister  
 Nathaniel Holmes  
 Davenport Hooker  
 Thomas Hooker  
 Charles Robert Housum  
 Chapin Howard  
 Samuel Lamson Howell  
 Edward Kenneth Hoyt  
 DeForest Hulburd  
 Otis Scott Humphrey  
 Roy Bryant Hunter  
 Ralph Dresser Hunting  
 Clarke Stanley Hurlbut  
 Harold Thomas Fuller Husted  
 John Cornelius Hyde  
 Charles Elliott Ide  
 Raymond Ives  
 Henry Hollister Jackson  
 Donald Lines Jacobus  
 George Metcalf Johnson  
 John Quincy Adams Johnson, Jr.  
 Benjamin Franklin Jones  
 Clarence Drummond Jones  
 Alfred Horace Kahn  
 Howard Kenworthy  
 Harold Brown Keyes  
 Carl Kincaid  
 Robert Saxe Kinsey  
 Karl Windell Kirchwey  
 Russell Dyer Kittredge  
 Charles Whittemore Knapp  
 Ellis Knowles

Geoffrey Konta  
 Julius Ansgar Larsen  
 Hugh Ledyard  
 William Rockwell Leete  
 Howard Bishop Lewis  
 Nestor Searle Light  
 William Benjamin Lipphardt  
 Isaac Loewenthal  
 Francis Percy Loveland  
 John Louis Lowe  
 Charles Fisher Luther  
 Theodore Bird Lyon  
 William Howard Lyon  
 John Charles McCarthy  
 Irving J. MacDuffie, Jr.  
 Charles James McGraw  
 Delivan Alexander McGregor  
 Ralph Porter Mackenzie  
 William Holmes Mackenzie  
 Philip Rogers Mallory  
 Alan Newhall Mann  
 Frank Gilbert Marsh  
 Thomas Mercer Marshall, 3d  
 Samuel Francis Melcher  
 Austin Cook Merrill  
 Charles Edward Messerly, Jr.  
 Douglas Miller  
 Lawrence Vernon Miller  
 James Thacker Milliken  
 Mark Lincoln Mitchell  
 August Charles Mitke  
 Albert John Mohlman  
 John Warner Moore  
 Paul Moore  
 Frederic Timothy Murphy  
 Joseph William Murphy  
 Gilbert Nairn  
 Wilford Wolfie Naman  
 Homer Chidsey Neal  
 Sherman Brown Neff  
 Frank Hermon Nettleton  
 Henry Dutton Noble, Jr.  
 Francis Ely Norris  
 Oliver Burnham North

Haskell Noyes  
 Robert Hale Noyes  
 Emmet O'Neal, B.A.  
 Central College 1907  
 Philip Scudder Ordway  
 Samuel Gilman Ordway  
 Arthur Dimon Osborne, 2d  
 Patrick Brett O'Sullivan  
 Sidney Rollins Overall  
 George Albert Peirce  
 Lester William Perrin  
 John Punnett Peters, Jr.  
 William Richmond Peters, Jr.  
 Chester Arthur Phillips, B.A.  
 Central College 1904  
 Duncan Clinch Phillips, Jr.  
 James Laughlin Phillips  
 Otto Carl Pickhardt  
 Philip Hale Pierson  
 John Thomas Pigott, Jr.  
 Harold Sackett Pond  
 Donald Wallace Porter  
 Eliot Hale Porter  
 Graham Cummings Porter  
 Edwin Pugsley  
 William Lutkins Rae  
 Gomer Henry Rees  
 Ray John Reigeluth  
 Edward Hartman Reisner  
 Walter Richardson  
 Harold Wade Riggs  
 Henry Alsop Riley  
 Wright Haffards Robertson  
 Robert William Rosenberg  
 Gustave Jennings Rosén  
 Beekman Oliver Rouse  
 Schuyler Humphrey Rust  
 John Harold Ryan  
 Arnold Schmidt  
 William David Scholle  
 Robert Enos Scragg  
 Joseph Lionel Seligman  
 George Alexander Seligmann  
 Arthur Warren Selleck

Nathaniel Burton Sewell  
 Charles Seymour  
 Robert Alphonso Shackleton  
 Archie McDaniels Sheldon  
 Roger Bulkley Shepard  
 Roger Sherman  
 Joseph Byron Sieber  
 Vinton D. Singer, B.A.

Otterbein University 1907

John Wyness Skinner  
 Raymond Bates Small  
 Charles McLean Smith  
 Richard Roy Smith  
 Henry Burgess Snyder  
 George Henry Soule, Jr.  
 William Norwood Sparhawk  
 Albert Tenney Spaulding  
 Morry William Spitz  
 William Marshall Walter Splawn,

B.A. Baylor University 1906

Harold Stanley  
 Maurice Stanley  
 Henry Bascom Stapler  
 Roswell Hiram Steele  
 James Hale Steinman  
 Frederick Nelson Stevens  
 Donald Barton Stewart  
 Ralph Fernhead Stoddard  
 Howard Sturges  
 Leonard Sullivan  
 Samuel Swift  
 Edgar Wendell Tait  
 Horace VanSands Taylor  
 Thomas Anthony Thacher  
 Gordon Chatfield Thayer  
 Miles Gordon Thompson  
 James Carlton Thornton  
 Dennis Bascombe Tilson  
 Vernon Victor Tilson  
 Charles Augustus Tournier  
 George Henry Townsend, 2d

James Mulford Townsend, Jr.  
 Moore Caldwell Tussey  
 Henry Carlisle Tuttle  
 William Henry Twenhofel  
 Robert Bruner Umberger  
 Kennard Underwood  
 Laurence Vail Updegraff  
 William Stephen VanRensselaer  
 Paul Lansing Veeder, PH.B.

Yale University 1907

Elmer Chester Louis Wagner  
 Pike Powers Waldrop  
 Thomas Joseph Walker  
 William John Walker  
 William Kay Wallace  
 Clarke Washburne  
 Joshua Boone Waterworth  
 Charles Law Watkins  
 Henry Walter Webb  
 Lewis Hill Weed  
 William Stix Weiss  
 Kenneth Brakeley Welles  
 Thomas Perry Wells  
 Arthur Harold Weston  
 Edwin Adolph Wetzlar  
 Harvey S. Whitacre  
 Rollin Thomas White  
 Arthur Murray Whitehill  
 Isadore David Whitestone  
 Warren Ball Wilkes  
 Dudley Willcox  
 James Willard Williams  
 Ernest Lionel Wismer  
 Eugene Clark Worman, B.A.  
 Otterbein University 1907  
 Arthur Wren  
 Herbert David Wright  
 William Josiah Wright, B.S.  
 Acadia University 1907  
 William Wilford Wynkoop  
 Howard Vernon Yergin

#### BACHELORS OF ARTS WITH ENROLLMENT IN EARLIER CLASSES

Class of 1903

Bradford Ellsworth

Class of 1906

William Hughes Diller, from Class of 1907

Class of 1907

Sinclair Lewis

Donald Breckenridge Wells

**BACHELORS OF PHILOSOPHY**

Clarence Frank Alcott

Ralph John Andrews

Mortimer Reynolds Anstice

Douglas Cole Arnold

Carryl Arthur Asher

George Franklin Atwater

Loutfi Hagop Babikian, B.A.

Central Turkey College 1905

Carl Conrad Baker

John Lawrance Barker

Herbert Woodward Barlow

Joseph Nicolson Barrett

Lawrence Marsh Bartlett

Lyman Earle Bassett

Gaspard d'Audelot Belin

Walter Kingsbury Belknap

Samuel John Berard

Ray Graham Biglow

Harold Crusius Bird

Lawrence Hubbert Blinn

William Jarvis Boardman, 2d

Frank Armstrong Boder

William Purinton Bomar

Frederick Boone Bostwick

Arthur Harding Bosworth

Frederic Quintard Boyer

John Smith Bradley, Jr.

John Akin Branch

Carl Brewer, B.A.

Yale University 1905

Wallace Seymour Brinsmade

Joshua Twing Brooks

Harold Ross Brown

Robert Ervin Brown

Raymond Lester Brown

Edward Browning

James Herbert Browning

Gerard Louis Buhrman

Amasa Cobb Bull

George Haring Bunker

Laidlaw Boswell Burger

Arthur Killam Burwell

Harwood Brynes

Carleton Strong Cairol

Henry Coffin Carlisle

James Richardson Carpenter

Samuel Laurence deCartaret

Russell Estes Chatfield

Ju Hsiang Chen

James Henderson Childs, B.S.

Alabama Polytechnic Institute 1904

Tsung Hua Chow

Leroy Christy

Howard Emerson Church

Bernard Stearns Clark

Stanley Newton Clarke

James Joseph Clifford

James Insley Coddington

Clarence Holloway Cogswell

Roger Baldwin Colton

Edwin Chesney Colwell

Edward Eratus Congdon

Constantine Mugurditch Constantian, B.A.

Central Turkey College 1902

Harry Holmes Coolidge

Algernon Booth Corbin, Jr.

Frank John Cox

George Hyland Crofton

Wells Sargent Dickinson

Hiram Waldemar Dodd

Albert Lee Donnelly

David Dows  
 Conrad Gotzian Driscoll  
 Noel Maxton Swezey Dunbar  
 William Edwin Dunham  
 Wesley Earl Dunkle  
 Stanley Lane Eddy  
 George Lewis Emmons  
 Fred Engelhardt  
 Himon William Evans  
 Herman Walker Farrar  
 Lyle Gordon Fear  
 Morris Seide Fine  
 George Morris Fosdick  
 Hervey Lytton Foster  
 Lee Nathaniel Foster  
 Nathan Roscoe Francis, B.A.  
     Yale University 1902  
 Lawrence Percival Galt  
 Paul Smith Gates  
 Frederick Alan Gaylord  
 William Edward Geary  
 Ferdinand LaMotte Gilpin, Jr.  
 William Barns Given, Jr.  
 Stanley Holland Graves  
 Franklin Thomas Griswold  
 Herbert Hartley Guest  
 George Charles Haas  
 Willis Worthington Hale  
 Edward Bigelow Hall  
 Seymour Dwight Hall  
 Harry Breden Ham  
 Frank Watrous Hamilton  
 Benjamin Pomeroy Hamlin, B.A.  
     Yale University 1907  
 Henry Dennis Hammond  
 Foster Hannaford  
 Charles S. Hart  
 Benjamin Rawls Hawley  
 George Frederick Hendricks  
 Lucius Felix Herz  
 Nathaniel Herz  
 Donald York Hill  
 Hou Wei Ho  
 William Patton Hopkins

William Israel Howland, Jr.  
 Yü Peng Hua  
 Clayton Harwood Huckans  
 Frank W. Hulett  
 John Irving Hull  
 Henry Julian Correll Humphrey  
 Burdon Pelton Hyde  
 Edward Terence Hyland  
 Anthony Michael Ingram  
 David Duryea Irwin  
 Nejib Hovhanness Jebejian, B.A.  
     Central Turkey College 1903  
 Edgar Mayer Johnson  
 Carleton Hill Jones  
 Howard Harding Jones  
 Stanley Howell Jones  
 Thomas Albert Dwight Jones  
 William Strother Jones, Jr.  
 John I. Kane  
 Ben Chapman Keator, Jr.  
 Alexis Augustus Kelsey  
 Aaron Lufkin Kelsey  
 Julian Kennedy, Jr.  
 Peter Maximus Kennedy  
 Elmore Coe Kerr  
 Valentine Odell Ketcham  
 Edwin Selden Lane  
 Frank Robert Langdale, Jr.  
 Kenneth William Leighton  
 Norman Alvah Leonard, B.A.  
     Yale University 1907  
 Aldo Leopold  
 Oskar Liebig  
 Sidney Henry Lincoln  
 Robert Bruce Lindsay  
 George Granville Lobdell  
 Stuart Logan  
 Allan Loudon  
 Clarence Henry Lyman  
 Duane Shuler Lyman  
 Albert Sephton Lynch  
 Stanley Lyon  
 Tai Cheng Ma  
 Selim Walker McArthur

Herbert McCuen  
Neil Atkinson McGill  
William Francis McKone  
William Edward Mahoney  
Robert Newton Manross  
Stuart Clarke Merwin  
Clarence Adolph Metzger  
William Flagg Middlemass  
Edward Nesbitt Millan  
Thomas Woodnutt Miller  
Winfield Clarence Miller  
Harry Joseph Moakley  
Cary Brownell Moon  
Edgar Dwight Moore  
Laurence Lewis Moore  
Robert Royster Moore  
John Upshur Moorhead  
William James Morden  
Jared Kirtland Morse  
George Henry Mosely  
Franklin Gilman Neal  
Richard Edgar Needham  
William Wallace Newcomb, Jr.  
Harold Pierrepont Newton  
Jesse Brooks Nichols  
Ralph Wilbur Nichols  
Lester Ambler Nothnagle  
William Henry Joseph O'Brien  
Howard Taylor Oliver  
Thomas Francis O'Neill  
Edward Champlin Osborn  
Allen Starr Page  
H. Ray Paige  
William Parker, Jr.  
Lewis A. Parsons  
Claude Jewell Peck  
Joseph Allen Peck  
Philip Field Wythe Peck  
James Vincent Perrin  
John Newton Peyton  
Howard Elmer Phelps  
Morris Curtis Pigott  
Robert Pike  
Tillotson Beach Platt

Solomon Colman Poriss  
Ellsworth St. John Prentice  
Harold Turnbull Pritchard  
Curtis Prout  
George Wenner Quentin  
Herbert Hartley Ramsay  
John Patterson Ramsey  
Charles Denman Ramond  
William Richards, Jr.  
Laurence Ballard Robbins  
Empey Arthur Robertson  
Arthur James Robin  
Fred Alexander Rogers  
Herbert Morse Root  
Robert Stephen Rose  
Harry Rosenbaum  
Frank Alexander Ross  
Edward Larned Ryerson, Jr.  
Harry Arnold Sautter  
John Hannon Schoolfield  
Carl Trueworthy Schuneman  
Lawrence Williams Scudder  
Alexander Clifford Scully  
Norman Fisk Shailer  
John William Shea  
Washington Kyle Sheffield  
George Willis Shubert  
Abbott Beecher Silva  
William Wood Skinner  
George Dresser Smith  
Henry DeWitt Smith  
Joseph Newton Smith  
Horace Adams Soper  
Bogart Greenwood Southack  
Henry Boardman Spalding  
Allen Conkling Staley  
Medary Wilson Stark  
Harlin Melville Steely, Jr.  
Holland Newton Stevenson, 2d  
Glenn Stewart  
Ralph Holmes Stone  
Willard Frost Story  
William Thorp Sturges  
Albin Champlin Swenson

Theodore VanKleek Swift	Jacob Weinstein
Edward Brooks Taylor	Joseph Francis Weller
William Walter Taylor	Bishop White
George Ross Templeton	Frank Whitney
Arthur Philo Terrill	Stephen Whitney
Charles Dunning Thompson	Francesco Bianchi Whittemore
Charles Pomroy Thompson, Jr.	Morris Leggett Willets
Paul Thompson	Charles Gallup Williams
Douglas Hotchkiss Thomson	Howard Benjamin Wilson
Frank Henry Villie	William Porter Witherow
Clifton Edmun Visel	Herman Lewis Wittstein
Philip Stanley Wainwright	Edgar Clinton Wolcott
Henry Erwin Walker	Meyer Henry Wolff
John Morton Walker, Jr.	George Edgar Wood
Ching Chun Wang	Templeton Woolston Wood
Paul Milo Watrous	Edward Alexander Gill Wylie
Cornelius Bushnell Watson	In Young

**BACHELORS OF PHILOSOPHY WITH ENROLLMENT  
IN EARLIER CLASSES**

Class of 1877

Charles Cartledge Godfrey

Class of 1891

William Pierson Hamilton

**BACHELOR OF FINE ARTS**

Huc-Mazelet Luquiens, B.A.

Yale University 1902

**BACHELORS OF MUSIC**

Seth Daniels Bingham, Jr., B.A.

Yale University 1904

Frederick Burrage Granniss

**BACHELORS OF LAWS**

Chester Adraine Adams

Donald Allison Adams, B.A.

Carleton College 1903

William Mathew Aiken, *magna cum laude*

John Quincy Ames

Walter Preston Armstrong, B.A.

Yale University 1906, *magna cum laude*

Leonard Woods Baker

Saul Berman

Arthur Willis Blackman, B.A.

Yale University 1905

Clarence J. Blinn

William Andrew Bree, *cum laude*

Charles Philip Brewer

Martin Leonard Caine

Samuel Campner

Vahan Cardashian

Arnold Plack Carr

Paul Stanley Chapman

Chauncey Irving Clark, *cum laude*



Edward Claxton  
 Richard William Cronecker  
 Frank Quinn Cronin, B.A.  
     Yale University 1905  
 Roy Edwin Cubbage, PH.B.  
     Drake University 1907  
 Joseph Irving Davidson  
 Harold Espe Drew, B.A.  
     Yale University 1906, *cum laude*  
 Edwin Jason Dryer, B.A.  
     Randolph-Macon College 1905, M.A.  
     1905  
 William Edward Egan, *cum laude*  
 James Edwin Ewers, B.A.  
     Yale University 1906  
 Percy Coleman Field, LL.B.  
     Kansas City School of Law 1907  
 William Henry Fogerty  
 Graham Foster  
 Herbert Bradley Foster  
 Wilson David Frederick  
 William Edward Gamble  
 Andrew William Gardella  
 Karl Goldsmith, *cum laude*  
 George Basil Gordon  
 William Vincent Griffin  
 Charles Nelson Harmon  
 John Frederick Hauck  
 Cramer Chesterfield Hegeman  
 Robert Caspar Hoerle  
 Richard Carley Hunt, *cum laude*  
 Harold Burton Jamison, B.A.  
     Yale University 1906, *cum laude*  
 George Foster Jones, B.L.  
     University of California 1906  
 Thomas Alexander Keating  
 Irenus Prime Keith, B.A.  
     Yale University 1906  
 Gunther Rudolph Lessing  
 Benedict Edward Lyons  
 William Joseph McKenna  
 Charles Joseph Martin  
 Benjamin Heath Mead, B.A.  
     Yale University 1906  
 Paul Lathrop Miller  
 Charles Francis Mitchell

Thomas Joseph Molloy  
 Charles Edward Moore  
 Harry Augustin Moran  
 Aurelio Narganes  
 Clifton Junius O'Harra, Jr., B.A.  
     Carthage College 1906, *cum laude*  
 Arthur Bernard O'Keefe  
 Dwight Partridge  
 Adrian Abraham Pierson  
 Joseph Quittner  
 David Michael Reilly  
 Harry Woodward Ritter  
 Maury Robinson, LL.B.  
     Central University 1907  
 Maurice Downs Rowland  
 George Henry Rowley, B.A.  
     Yale University 1906  
 Paul Augustus Schlafly, B.A.  
     St. Mary's College 1905  
 Arnold Orestes Schramm  
 Harrison Tweed Sheldon, B.A.  
     Yale University 1905  
 George Matthew Skene  
 Charles Alston Smythwick, B.A.  
     Shaw University 1904  
 Harold Gordon Spencer  
 Theodore Emil Steiber  
 Nathaniel Paul Sterne, *summa cum laude*  
 Carleton Hickox Stevens, B.A.  
     Yale University 1906  
 Lester Barber Stevens  
 Charles Lyman Stewart, *cum laude*  
 Doran Hollister Sutphen, LL.B.  
     University of South Dakota 1907  
 Percy Truman Sutphen, LL.B.  
     University of South Dakota 1907  
 Harold Wood Thacher  
 Beverly Blalock Thomasson, B.L.  
     University of Georgia 1907  
 Harry Griffy Tolliver  
 Donald Judson Warner, B.A.  
     Yale University 1906  
 Herbert Joel Wilcox  
 Heaton Hobart Wright

## BACHELORS OF LAWS WITH ENROLLMENT IN EARLIER CLASSES

Class of 1900

Albert Francis Judd, from Class of 1907

Class of 1903

Thomas Francis Turley

Class of 1907

Thomas Bernard Gilpin, B.A.  
Amherst College 1902

Holliday Ellwood Hartman

## BACHELOR OF CIVIL LAW

Forrest LeBert Forbes

## BACHELORS OF DIVINITY

Robert Bell

Charles Sherman Bodwell, B.A.  
Yale University 1908

Howard Garfield Connelly, B.A.  
Bethany College 1905

John Luther Dickson

Harry Grimes, B.A.  
Beloit College 1905

Arthur Jones, B.A.  
Friends University 1903

Daniel Webster Kurtz, B.A.  
Juniata College 1905, *magna cum laude*

Theodore Burger Lathrop, B.A.  
Beloit College 1903, *cum laude*

Robert Bryan McCord, B.A.  
Florida State College 1905

John Lee Maddox, B.A.  
Denison University 1904

Pearl Eugene Mathias, B.A.  
Lebanon Valley College 1905

Howard MacMillan Richard, B.A.  
Wesleyan University 1904

Angelo Eusebius Shattuck, B.A.  
Beloit College 1905

William Arthur Shelton, B.A.  
Hargrove College 1905

Thomas Aber Williams, B.A.  
Marietta College 1905

Benjamin Franklin Wyland, PH.B.  
State University of Iowa 1904

## MASTERS OF ARTS

WITH SUBJECTS OF STUDY

Harry Leslie Agard, B.A.  
Wesleyan University 1904  
Mathematics

Unosuke Akatsuka  
Formosan Association College 1904  
Political Economy

Sarkis Manoog Albarian, B.A.  
St. Paul's Institute, Tarsus, 1901,  
B.D. Hartford Theological Seminary 1907  
Philosophy

Clarence Edward Andrews, B.A.  
Yale University 1906  
English

Frederick Thomas Blanchard, B.L.  
University of California 1904  
English

Henry Holland Carter, B.A.  
Oberlin College 1907  
English

Gerald Chittenden, B.A.  
Yale University 1904  
English

Harlan Creelman, B.D.  
Yale University 1889, PH.D. 1894  
Semitic Languages and Biblical  
Literature

Alfred Miller Cressler, B.A.  
Yale University 1902  
English

Urban Cronan, B.A.  
Yale University 1906  
Romance Languages

- David Edward Dangler, B.A.  
Yale University 1905  
English
- Carl Willis Davis, B.A.,  
Yale University 1902  
English
- Henry Groff Dodge, B.A.  
Yale University 1905  
English
- Joseph Roy Ellis, B.A.  
Oberlin College 1905  
English
- José Escaler, B.A.  
Liceo de Manila 1902, LL.B. 1905,  
M.L. Yale University 1907  
Sociology
- Victor Oscar Freeburg, B.A.  
Bethany College 1904,  
B.A. Yale University 1905  
English
- Roy Leon French, PH.B.  
Syracuse University 1906  
English
- Thomas Theron Giffen, B.A.  
Pomona College 1906,  
B.A. Yale University 1907  
Philosophy
- Charles Martin Good, B.A.  
Otterbein University 1904,  
B.D. Yale University 1907  
Philosophy
- Aubrey Ward Goodenough, B.A.  
Oberlin College 1906  
English
- Charles Roberts Hopkins, B.A.  
Yale University 1907  
English
- Edward Traill Horn, B.A.,  
Muhlenberg College 1907  
History
- Philip Mead Howe, B.A.  
Yale University 1902  
History
- William Rabon Howell, PH.B.  
Milligan College 1904, B.A. 1905  
Biblical Literature and History
- Charles Hadlai Hull, B.A.  
Yale University 1905, LL.B. 1907  
Social Science
- Frederick Raymond Hunt, B.A.  
Williams College 1905  
Classics
- Seimin Inaoka, B.A.  
University of Minnesota 1907  
Economics
- Alexander Corbin Judson, B.A.  
Pomona College 1907  
English
- William Oded Keirstead, B.A.  
Bates College 1906,  
B.A. Yale University 1907  
Sociology
- Edwin Burruss King, B.A.  
Yale University 1898  
English
- Saburo Koshiba, B.A.  
Union Christian College 1904,  
B.D. Oberlin College 1907  
Biblical Literature and Philosophy
- Daniel Webster Kurtz, B.A.  
Juniata College 1905  
Philosophy
- John Kenyon Lamond, B.S.  
Rhode Island College of Agriculture  
and Mechanical Arts 1907, M.A. 1907  
Mathematics
- William Harding Longley, B.A.  
Acadia University 1901,  
B.A. Yale University 1907  
Biology
- Herman Samuel Lovejoy, B.S.  
Dartmouth College 1894  
Education
- Thomas Randolph Marshall, PH.B.  
Brown University 1907  
Economics
- George Douglas Milbury, B.A.  
Bates College 1905,  
B.D. Yale University 1907  
Biblical Literature
- Robert Wilson Neal, B.A.  
University of Kansas 1898, M.A. 1899,  
M.A. Harvard University 1903  
English
- Raymond William Osborne, B.A.  
Yale University 1906  
Chemistry and Mineralogy

- George Washington Page, B.A.  
Bethel College 1899, M.A. 1903  
History
- Maurice Farr Parmelee, B.A.  
Yale University 1904  
Social Science
- George Ellsworth Putnam, B.A.  
University of Kansas 1907  
Political Science
- Howard MacMillan Richard, B.A.  
Wesleyan University 1904,  
Yale University 1905  
Biblical Literature
- Harley Fish Roberts, B.A.  
Western Res. Univ. 1884, M.A. 1887  
Classics
- Howard Arnold Seckerson, B.A.  
Wesleyan University 1907  
English
- Nobuji Sekido  
Waseda University 1907  
English
- William Arthur Shelton, B.A.  
Hargrove College 1905  
Biblical Literature
- Arthur Wells Smith, B.A.  
National Normal University 1905
- Brainerd Edwards Smith, B.A.  
Yale University 1904  
History
- Frederick Azel Sumner, B.A.  
Oberlin College 1891,  
B.D. Hartford Theol. Sem. 1894  
Biblical Literature
- Senjiro Takagi, B.A.  
Yale University 1907  
Social Science
- Clifford Griffith Thompson, B.A.  
Young Harris College 1903  
Philosophy
- Ralph Richard Upton, B.A.  
Yale University 1892  
History
- Orlin Hale Venner, PH.B.  
Berea College 1902,  
B.A. University of West Virginia 1905  
English
- Charles Vernon Vickrey, PH.B.  
Nebraska Wesleyan University, B.A.  
1906  
History
- Roosevelt Pruyn Walker, B.A.  
Mercer University 1905  
English
- Henry Freeman Walradt, B.A.  
Yale University 1907  
Economics
- Henry Adelbert White, B.A.  
Wesleyan University 1904, M.A. 1905  
English
- Philip Barrows Whitehead, B.A.  
Beloit College 1906
- Dean Rockwell Wickes, PH.B.  
University of Chicago 1905  
Biblical Literature
- Thomas Goddard Wright, B.A.  
Yale University 1907  
English

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#### MASTERS OF LAWS

- William Henry Beeler, LL.B.  
Indiana University 1903, *cum laude*
- William Kernan Camblos, B.A.  
St. Joseph's College 1904, M.A. Yale  
University 1906, LL.B. 1907
- Timothy James Campbell, B.A.  
Monmouth College 1904, M.A. 1907,  
LL.B. Drake University 1907, *cum laude*
- Ira T. Crask, LL.B.  
Indiana University 1907
- Francisco Afan Delgado, LL.B.  
Indiana University 1907, *cum laude*
- Claude Chesterfield Fogle, B.A.  
University of Missouri 1903, LL.B.  
University of Michigan 1907
- Harry Scheuer Haas, LL.B.  
Washington University 1907
- Lester Irving Heyman, LL.B.  
Washington University 1907
- Harry LeRoy Laurens, LL.B.  
Kansas City School of Law 1907
- David Ignatius McCahill, LL.B.  
Drake University 1907

Samuel Stephen McCahill, LL.B.  
University of Southern California  
1906, *cum laude*

Thompson Morris Rector, B.S.  
University of Texas, 1905, LL.B. 1907

Sidney William Solomon, LL.B.  
Washington University 1907

John Carlyle Wilkes, LL.B.  
University of Michigan 1907

### MASTERS OF SCIENCE

Clifford Whitman Bates, PH.B.  
Yale University 1905

Lon Louis Hutchison, B.A.  
University of Oklahoma 1907

Tadasu Saiki, M.D.

Okayama Medical College 1898  
PH.D. Yale University 1907

### CIVIL ENGINEER

George Loomis Beecher, PH.B.  
Yale University 1906

### MECHANICAL ENGINEERS

Herbert Brinkerhoff North, PH.B.  
Yale University 1901

Herbert Lee Seward, PH.B.  
Yale University 1906

### MINING ENGINEER

Heaton Ridgeway Robertson, B.A.  
Yale University 1904, PH.B. 1906

### MASTERS OF FORESTRY

Raymond Walter Allen, B.S.  
Rutgers College 1906

Nelson Courtlandt Brown, B.A.  
Yale University 1906

Frederick Herbert Brundage, PH.B.  
Yale University 1907

Elias Treat Clark, PH.B.  
Yale University 1907

Ernest Dwight Clark, PH.B.  
Yale University 1907

Robert Eli Clark, PH.B.  
Yale University 1907

Arthur Mayhew Cook, B.A.  
Harvard University 1906

John Arden Ferguson, B.A.  
Hamilton College 1896

Hiram Earl French, B.S.  
University of Iowa 1906

Rufus Clifford Hall, B.S.  
Northwestern University 1906, *cum laude*

William Catesby Latané, Jr., B.S.  
Virginia Polytechnic Institute 1905

Charles Augustus Lewis, B.A.  
Trinity College 1893

Forman Taylor McLean, PH.B.  
Yale University 1907

Harvey Reginald MacMillan, B.A.S.  
University of Toronto 1906

Willis Norman Millar, B.S.  
University of Pennsylvania 1906, *cum laude*

Robert Barclay Miller, M.A.  
Wabash College 1896

Barrington Moore, B.A.  
Yale University 1906

Thornton Taft Munger, B.A.  
Yale University 1905, *cum laude*

Robert Landon Rogers, B.A.  
Yale University 1906

Julian Eastman Rothery, PH.B.  
Yale University 1907

Edward Burgis Starr, B.A.  
Yale University 1907

Dillon Parnell Tierney, B.S.F.  
University of Minnesota 1906

Wilford Bennett Willey, B.A.  
Cornell University 1907

Hubert Coffing Williams, PH.B.  
Yale University 1906

## DOCTORS OF MEDICINE

Robert Robertson Agnew	William Edward Lippman
Alfonso Louis Avitabile	John Henry McGrath
Abraham Bernstein	Arthur Drought Marsh
John Eugene Black, PH.B.	Clement Channing Nevin, <i>cum laude</i>
Yale University 1903	Ira Hart Noyes, <i>cum laude</i>
Robert Joseph Boyle	John Francis O'Brien, <i>cum laude</i>
Thomas Frederick Broderick, Jr.	Sumpat Kevork Pachanian, B.A.
Paul Morgan Butterfield, B.A.	St. Paul's Institute, Tarsus, 1899
Yale University 1905	Michael Antonino Parlato
Perley Bickford Chandler, B.A.	George James Schuele
Yale University 1905, <i>cum laude</i>	Joseph Eastman Sheehan
Clifton Mather Cooley	Goodrich Truman Smith
Abram Aron Hershman	Emil Maurice Soroch
Hugh Francis Keating, <i>cum laude</i>	Paul Titus
Joseph Edwards Kerney	Mendel Volkenheim
George Conklin Kinne	Edward Joseph Whalen
Joseph Irving Linde	

## DOCTORS OF PHILOSOPHY

## WITH SUBJECTS OF STUDY

May Alice Allen, B.A.	Herbert Stanley Brown, B.A.
Smith College 1901	Yale University 1881, B.D. 1886,
Classics	M.A. 1906.
John Bauer, B.A.	Semitic Languages and Biblical Literature
Doane College 1904,	Samuel Hopkins Clapp, B.A.
B.A. Yale University 1906	Yale University 1901
Economics and Sociology	Chemistry
Stanley Rossiter Benedict, B.A.	Charles Alexander Cockayne, B.A.
University of Cincinnati 1906	Heidelberg University (Ohio) 1901,
Physiological Chemistry	M.A. 1903, M.A. Yale University 1906
Earl Gordon Bill, B.A.	Philosophy
Acadia University 1902,	Henry Bronson Dewing, B.A.
B.A. Yale University 1906, M.A. 1906	University of California 1903, M.A.
Mathematics	1905
Theodore Harding Boggs, B.A.	Classics
Acadia University 1902, M.A. 1904,	William Allen Drushel, B.S.
B.A. Yale University 1905	National Normal University 1896,
Anthropology	LL.B. 1900, B.A. Yale University 1905
Walter Minor Bradley, PH.B.	Chemistry
Yale University 1899	Frank Nugent Freeman, B.A.
Chemistry	Wesleyan University 1904,
David William Brandelle, B.A.	M.A. Yale University 1906
Augustana College 1899,	Psychology
M.A. University of Minnesota 1902	
History	

- Austin Morris Harmon, B.A.  
Williams College 1902  
Classics
- Frederick Browne Harrison, PH.B.  
Yale University 1899  
English
- Ruth Sawyer Harvey, B.A.  
University of Cincinnati 1905  
Geology
- Samuel Burdett Hemingway, B.A.  
Yale University 1904, M.A. 1905  
English
- Frederick William Heyl, PH.B.  
Yale University 1904  
Chemistry
- Francis Jerome Holder, B.S.  
National Normal University 1896,  
M.A. Yale University 1905  
Mathematics
- Francis Baker Laney, B.S.  
Drury College 1902,  
M.A. University of Wisconsin 1905  
Geology
- Louis Eleazer Lord, B.A.  
Oberlin College 1897, M.A. 1897,  
M.A. Harvard University 1900  
Classics
- Ernest Barnes Lytle, B.S.  
University of Illinois 1901, M.A. 1904  
Mathematics
- Howard Douglass Newton, B.S.  
Boston University 1904  
Chemistry
- Wallace Notestein, B.A.  
University of Wooster 1900,  
M.A. Yale University 1903  
History
- Perry Blaine Perkins, B.A.  
University of New Brunswick 1902,  
B.A. Harvard University 1903,  
M.A. Yale University 1904  
Physics
- Walter Petersen, B.A.  
Grand Island College 1900,  
M.A. University of Nebraska 1902  
Classics
- Frederick Erastus Pierce, B.A.  
Yale University 1904, M.A. 1905  
English
- Ethel Zivley Rather, B.A.  
University of Texas 1902, M.A. 1903  
History
- John Ker Towles, B.S.  
Tulane University 1902, M.S. 1904  
Economics
- Freeman Ward, B.A.  
Yale University 1903  
Geology
- Euphemia Richardson Worthington,  
B.A. Wellesley College 1904  
Mathematics
- Harry Clinton York, B.A.  
Yale University 1905, M.A. 1906  
Semitic Languages and Biblical  
Literature

## HONORARY DEGREES CONFERRED JUNE 1908

### DOCTORS OF DIVINITY

Rev. Theodore Thornton Munger, B.A. Yale University 1851	Rev. Hugh Black, M.A. Glasgow University 1887
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### DOCTORS OF LAWS

Samuel James Elder, B.A. Yale University 1873 George Washington Kirchwey, B.A. Yale University 1879	John Pierpont Morgan John Coit Spooner, B.A. University of Wisconsin 1864
--	---

### DOCTORS OF LETTERS

William Vaughn Moody, B.A. Harvard University 1893	Joaquim Nabuco, LL.D. Columbia University 1906
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### DOCTOR OF SCIENCE

Graham Lusk, PH.B.  
 Columbia University 1887

### MASTERS OF ARTS

Otto Tremont Bannard, B.A. Yale University 1876 Macgrane Coxe, B.A. Yale University 1879	William Kent, B.A. Yale University 1887 John Meigs, B.A. Lafayette College 1871
---	--

William Beach Olmsted, B.A.  
 Trinity College 1887

(Officers of Yale University given the degree of Master of Arts *privatim* by vote of the Corporation conferring this in the case of all members of the Corporation and Professors who have no previous Yale degree or no Yale degree higher than the Bachelor's.)

### NOVEMBER, 1908

Wilbur Cortez Abbott, B.A. Wabash College 1892 John Kimberly Beach, B.A. Yale University 1877 Charles Cameron Clarke, Jr., B.A. Yale University 1883	Max Farrand, B.A. Princeton University 1892 George Lincoln Hendrickson, B.A. Johns Hopkins University 1887 Louis Doremus Huntoon, M.A. Columbia University 1895
---	--



## HONORS IN THE SEVERAL DEPARTMENTS, 1908

## THE ACADEMICAL DEPARTMENT

## SENIOR APPOINTMENTS, CLASS OF 1908

(FOR THE WORK OF THE WHOLE COLLEGE COURSE†)

## PHILOSOPHICAL ORATIONS

CARLETON MANSFIELD ALLEN  
 ALBERT EDWIN AVEY  
 FORREST BEYER  
 RONALD MUIRHEAD BYRNES  
 STARR GARDINER COOPER  
 GEORGE DAHL  
 EUGENE DELANO, JR.  
 LEWIS CHARLES EVERARD  
 HAROLD THOMAS FULLER  
 HUSTED  
 HENRY HOLLISTER JACKSON  
 KARL WINDELL KIRCHWEY  
 HOWARD BISHOP LEWIS  
 HOMER CHIDSEY NEAL  
 EDWARD HARTMAN REISNER  
 ROBERT WILLIAM ROSENBERG  
 JOHN HAROLD RYAN  
 CHARLES SEYMOUR

FREDERICK NELSON STEVENS  
 RALPH FERNHEAD STODDARD  
 LEWIS HILL WEED  
 ARTHUR HAROLD WESTON

CLIFTON LEBARRON ADAMS  
 CARL WILLIAM BLEGEN  
 WILLIAM SMITH CULBERTSON  
 FREDERICK CHASE HECK  
 DELIVAN ALEXANDER  
 MCGREGOR  
 CHESTER ARTHUR PHILLIPS  
 WILLIAM MARSHALL WALTER  
 SPLAWN  
 WILLIAM HENRY TWENHOFEL  
 EUGENE CLARK WORMAN  
 WILLIAM JOSIAH WRIGHT

## HIGH ORATIONS

James Corbett Barry  
 William Burke Belknap  
 Clifford Hershey Bissell  
 Hillier McClure Burrowes  
 Reginald McIntosh Cleveland  
 Raymond Vere Congdon  
 David Ferguson  
 Sydney Joseph Frank  
 Ralph Edward Goodwin  
 Walter Earle Hartley  
 Charles Robert Housum  
 Samuel Lamson Howell  
 Otis Scott Humphrey  
 Donald Lines Jacobus  
 William Rockwell Leete

Charles Fisher Luther  
 Graham Cummings Porter  
 Raymond Bates Small  
 Richard Roy Smith  
 William Norwood Sparhawk  
 Horace Van Sands Taylor  
 Thomas Anthony Thacher  
 Laurence Vail Updegraff  
 William Stix Weiss  
 James Willard Williams  
 Ernest Lionel Wismer  
 Howard Vernon Yergin

Nathaniel Burton Sewell

## ORATIONS

Everett Lee Baker  
 Donald Campbell Bakewell  
 Earl Edward Beyer  
 Willard Samuel Bissell  
 Andrew Linn Bostwick  
 Rowland Sherwood Bosworth  
 Hamilton Mabie Brush

Thomas James Camp  
 George Edward Catlin  
 Francis Deraismes Childs  
 Oscar Henry Cooper, Jr.  
 Davenport Hooker  
 Clarke Stanley Hurlbut  
 George Metcalf Johnson

† The subdivision of a group by a dash indicates that the men whose names are below the dash were students in Yale College only during Senior year.

ORATIONS—*continued*

Charles Whittemore Knapp  
 Geoffrey Konta  
 William Benjamin Lipphardt  
 Frank Hermon Nettleton  
 Francis Ely Norris  
 Arthur Dimon Osborne, 2d  
 William Richmond Peters, Jr.  
 Robert Alphonso Shackleton

Warren Ball Wilkes  
 ———  
 Rollin Broughton  
 Arthur Delma Dyess  
 Roy Bryant Hunter  
 Miles Gordon Thompson  
 Pike Powers Waldrop

## DISSERTATIONS

David Nye Barrows  
 Charles Sherman Bodwell  
 Lewis Samuel Boothe  
 Wendell Stanton Brooks  
 Loyal Brown Clark  
 Walter Goodwin Davis, Jr.  
 Lewis Henry DeBaun  
 John Maurice Deyo  
 Conway Wing Dickson  
 Leonard Henry Freiberg  
 Frederick Augustus Godley  
 Irving Goldenburg  
 DeForest Hulburd  
 Russell Dyer Kittredge  
 Julius Ansgar Larsen  
 Sinclair Lewis  
 Isaac Loewenthal  
 Charles James McGraw  
 Philip Rogers Mallory

Frank Gilbert Marsh  
 Wilford Wolfie Naman  
 Robert Hale Noyes  
 Patrick Brett O'Sullivan  
 John Punnett Peters, Jr.  
 Otto Carl Pickhardt  
 Walter Richardson  
 Harold Wade Riggs  
 Henry Alsop Riley  
 Gustave Jennings Rosenn  
 William David Scholle  
 Joseph Byron Sieber  
 George Henry Soule, Jr.  
 Edgar Wendell Tait  
 William Wilford Wynkoop  
 ———  
 Joe Martin Higginbotham, Jr.  
 Emmet O'Neal  
 Harvey S Whitacre

## FIRST DISPUTES

Samuel Alpert  
 Joseph Howland Auchincloss  
 Oswald Prentiss Backus, Jr.  
 Lucius Horatio Biglow, 3d  
 Joseph Clarence Black  
 Frank Eugene Bridgett  
 Ralph Shepherd Bromer  
 Charles Bigelow Drake  
 Walter Remy Dray  
 Ernest Arthur Eddy  
 Joseph Sherman Euans  
 Chauncey Brewster Garver  
 Samuel Newton Holliday, 2d  
 Raymond Ives  
 Carl Kincaid  
 John Charles McCarthy

Samuel Francis Melcher  
 Philip Scudder Ordway  
 Samuel Gilman Ordway  
 Lester William Perrin  
 William Lutkins Rae  
 Ray John Reigeluth  
 John Wyness Skinner  
 Charles McLean Smith  
 Kennard Underwood  
 Thomas Joseph Walker  
 Clarke Washburne  
 Charles Law Watkins  
 Kenneth Brakeley Welles  
 ———  
 Shelley Edward Bennett, Jr.

## SECOND DISPUTES

Frank Altschul  
 Gordon Auchincloss  
 Philip Curtis Kibling Bartlett  
 John Dicks Cutter, Jr.

Courtlandt Palmer Dixon  
 John Elliott Field  
 Francis Yarrington Goodell  
 George Jackson Grammer, Jr.

SECOND DISPUTES—*continued*

Burton Johnson Hollister  
 Thomas Hooker  
 Chapin Howard  
 Robert Saxe Kinsey  
 Ellis Knowles  
 Irving J MacDuffie, Jr.  
 Alan Newhall Mann  
 John Warner Moore  
 Frederic Timothy Murphy  
 Duncan Clinch Phillips, Jr.  
 James Laughlin Phillips  
 Philip Hale Pierson  
 John Thomas Pigott, Jr.

Harold Sackett Pond  
 Edwin Pugsley  
 Arnold Schmidt  
 Joseph Lionel Seligman  
 Archie McDaniels Sheldon  
 Roger Sherman  
 Harold Stanley  
 Maurice Stanley  
 James Mulford Townsend, Jr.  
 Henry Carlisle Tuttle  
 Robert Bruner Umberger  
 Rollin Thomas White  
 Isadore David Whitestone

## FIRST COLLOQUIES

Albert Parker Abbe  
 Chauncey Perry Beadleston  
 Henry Sartwell Beardsley  
 Jonathan Sawyer Bradley  
 Nathan Hollister Bundy  
 Philip Hamilton Collins  
 Edward Stiles Davey  
 Samuel Ellis Dunham  
 Sydney Dodd Frissell  
 William Gammell, Jr.  
 John Arthur Gardner  
 Charles Howard Gilbert  
 Donald Greene  
 Joseph Thomas Hagan  
 Jule Murat Hannaford, Jr.  
 James Pendleton Helm, Jr.  
 Edward Kenneth Hoyt  
 John Cornelius Hyde  
 Charles Elliott Ide

Alfred Horace Kahn  
 Harold Brown Keyes  
 Ralph Porter Mackenzie  
 Austin Cook Merrill  
 Charles Edward Messerly, Jr.  
 James Thacker Milliken  
 August Charles Mitke  
 Eliot Hale Porter  
 Wright Haffards Robertson  
 Robert Enos Scragg  
 Henry Burgess Snyder  
 Albert Tenney Spaulding  
 James Carlton Thornton  
 Dennis Bascombe Tilson  
 William Kay Wallace  
 Henry Walter Webb  
 Arthur Wren  
 Herbert David Wright

## SECOND COLLOQUIES

Herman Alofsin, 2d  
 Malcolm Sterling Banks  
 Baird Broomhall  
 Reginald Woodward Catlin  
 Guy Cory Cleveland  
 Charles Templeton Crocker  
 Walter Morgan Crunden  
 William Strong Cushing  
 Malcolm Graham Douglas  
 John Henry Fitzgerald, Jr.  
 Frank Gosnell, Jr.  
 Dwight Torrey Griswold  
 Louis Lee Hemingway  
 Francis Percy Loveland  
 Theodore Bird Lyon

William Holmes Mackenzie  
 Douglas Miller  
 Paul Moore  
 Joseph William Murphy  
 Oliver Burnham North  
 Sidney Rollins Overall  
 George Albert Peirce  
 Donald Wallace Porter  
 Beekman Oliver Rouse  
 James Hale Steinman  
 Donald Barton Stewart  
 Joshua Boone Waterworth  
 ———  
 Paul Lansing Veeder

**HONORS IN SPECIAL STUDIES, CLASS OF 1908****CLASSICAL LANGUAGES AND  
LITERATURE**

HILLIER McCLURE BURROWES  
HAROLD THOMAS FULLER  
HUSTED  
HENRY HOLLISTER JACKSON  
ARTHUR HAROLD WESTON

**GERMANIC LANGUAGES AND  
LITERATURE**

JAMES CORBETT BARRY  
FREDERICK NELSON STEVENS

**ENGLISH LANGUAGE AND  
LITERATURE**

HAMILTON MABIE BRUSH  
THOMAS JAMES CAMP  
OSCAR HENRY COOPER, JR.  
WALTER MORGAN CRUNDEN  
LEWIS CHARLES EVERARD  
FREDERICK AUGUSTUS GODLEY  
CHARLES ROBERT HOUSUM

**MATHEMATICS**

WILLARD SAMUEL BISSELL

**PHYSICAL SCIENCES**

SAMUEL ALPERT

**FORREST BEYER**

ROWLAND SHERWOOD BOSWORTH  
ERNEST ARTHUR EDDY  
CHARLES ROBERT HOUSUM  
HOWARD BISHOP LEWIS  
OTTO CARL PICKHARDT  
CHARLES McLEAN SMITH  
HORACE VAN SANDS TAYLOR  
LEWIS HILL WEED

**NATURAL SCIENCES**

DAVENPORT HOOKER  
HENRY ALSOP RILEY

**PHILOSOPHY**

ALBERT EDWIN AVEY  
EDWARD HARTMAN REISNER

**HISTORY**

JAMES CORBETT BARRY

**SOCIAL SCIENCES**

LOYAL BROWN CLARK  
WILLIAM SMITH CULBERTSON  
LEWIS HENRY DEBAUN  
WILFORD WOLFIE NAMAN  
ISADORE DAVID WHITESTONE  
WILLIAM WILFORD WYNKOOP

**HONORS IN STUDIES OF JUNIOR YEAR, CLASS OF 1909**

PAUL THOMPSON ARNOLD  
RICHARD HERBERT BENNETT  
JOHN KINGSLEY BIRGE  
WILLIAM WHITING BORDEN  
CAROLUS THOMAS CLARK  
ALLEN ROBERT DODD  
DANIEL HIGGINS FENTON  
FREDERICK LAMONT GATES  
CLARENCE FLACK GRAHAM  
ROBERT NOAH GRISWOLD  
JESSE McMILLAN HARDING

Harvey Hollister Bundy  
Francis Peabody Butler  
Charles Soutter Campbell  
Frank Thompson Case  
Aims Chamberlain Coney  
Jackson Annan Dykman  
Harold Ransom Edwards  
Charles Vanderveer Graham  
Ralph Volney Harlow  
Patrick Joseph Healey  
Harris Monroe Humason  
Alexander Comstock Kirk  
Allen Trafford Klots  
Dickson Hammond Leavens  
Wilber McKee

BIRCH HELMS  
WILSON McCLAUGHRY HUME  
ELIAS ALFRED JOHNSON  
LEONARD BACON PARKS  
JOHN BATES PERRIN  
HAROLD CADY REYNOLDS  
HOWARD BENJAMIN SLIDER  
JOHN MINOR STETSON  
CARL HAMMOND THURSTON  
YE-TSUNG TSUR  
RAYMOND LOWREY WALKLEY

Harry Meixell, Jr.  
Robert Moses  
Karl Eugene Murchey  
Sherman Brown Neff  
Lawrence Benjamin Pagter  
Edward Otis Proctor  
Henry Lewis Read  
Cleaveland Jocelyn Rice  
Peter Benjamin Sarason  
Frank Jay Scribner  
Walter Pearson Smart  
Harold Phelps Stokes  
Malcolm Burt Vilas  
Rowland Gregory Wright

Paul Shipman Andrews  
 Frank August Assmann  
 Wheaton Augur  
 William Rider Babcock  
 Earle Wilson Bachman  
 Gerald Morton Butler  
 Douglas Treat Davidson  
 Samuel Foree Dennis  
 Gayer Gardner Dominick  
 Leon Godchaux  
 William Cleveland Haley  
 Paul Hilsdale  
 Bernhard Eliot Hoffman  
 James Merriam Howard  
 Joseph Paul Kaufman  
 Robert Louis Levy

Irvin Edward Margulies  
 Rufus Monroe Meroney  
 Edward McDonell O'Brien  
 Morgan Porter  
 Henry Brush Richardson  
 Paul Goodwin Robison  
 Arthur Ward Ruff  
 Stephen Willis Ryder  
 Stanley Stokes Shepard  
 James Platt Sweeney  
 Walker Moore Van Riper  
 William Corcoran Welling  
 John Benjamin Westcott  
 Thorne Lake Wheeler  
 Edward Luther White

**JUNIOR APPOINTMENTS, CLASS OF 1910**  
 (FOR THE WORK OF THE FIRST HALF OF THE COURSE)

**PHILOSOPHICAL ORATIONS**

CHARLES DUDLEY ARMSTRONG  
 PAUL DUANE BAILEY  
 JOHN EDWIN BARBER  
 MORRIS HARRY BEHRMAN  
 CHARLES RAYMOND BENTLEY  
 PERCY WELLS BIDWELL  
 SAMUEL MICHAEL COHEN  
 DONALD RYDER DICKY  
 ARTHUR ROBERTSON FERGUSON  
 JOHN WILLARD FORD  
 ROBERT DUDLEY FRENCH  
 CHARLES MARK GILL  
 RICHARD DWIGHT HILLIS

LEWIS ORRIN HUTCHINSON  
 ELMER DAVENPORT KEITH  
 LYNDON MARRS KING  
 HARRY JACOB KUGEL  
 BENJAMIN LIONEL LIBERMAN  
 CARL ALBERT LOHMANN  
 EDGAR MENDERSON  
 RALPH EMERSON MYERS  
 THOMAS LAWRASON RIGGS  
 ROBERT ALPHONSO TAFT  
 ARTHUR VAN BRUNT  
 WAYLAND WELLS WILLIAMS

**HIGH ORATIONS**

Leonard Cutter Bigelow  
 Edward Ely Curtis  
 Warren Gilbert Davis  
 Howard Alfred Dye  
 James Harold Flye  
 Collin Ford  
 Charles Pascal Franchot  
 Perrin Comstock Galpin

Nathan Flower George  
 George Gordon Hyde  
 John Joseph Lane  
 Frank Coe Lewis  
 Yin-ch'u Ma  
 John Joseph MacCarthy  
 Edwin A Whitman  
 Howard DeForest Widger

**ORATIONS**

Lawrence Luther Barber  
 Byron George Bliss  
 Theodore Henry Brown  
 Kent Sarver Clow  
 Frederick Morris Drew, Jr.  
 Louis Goethe Dreyfus, Jr.  
 William Young Duncan  
 Arthur Benson Gilbert  
 Rufus Bartlett Hall, Jr.  
 John James Jansen, Jr.  
 Stephen Edwards Keeler, Jr.

Henry Darius McCord  
 Roy Leighton McFarland  
 Buckingham Parsons Merriman  
 John Trumbull Metcalf  
 George Otto Oberhelman  
 Julius Christian Peter  
 Harold Bishop Reid  
 Graham Llewellyn Reynolds  
 George Adams Richardson  
 Philip Moen Stimson

## DISSERTATIONS

Roy Montgomery Andrew  
 Arthur Edward Baker  
 Henry Clarence Cloud  
 Reuben Bernard Crispell  
 Rosewell Mansing Curtis  
 Edward John Davin  
 Walter Herman Dietz  
 Arthur Howard Drisko  
 Stanley Lincoln Gedney, Jr.  
 Nathan Henry Gellert  
 George Leslie Harrison

Albert McClellan Haskell  
 Charles Frederic Jefferson  
 Robert Burr King  
 Louis Heitler Lehman  
 James Harold Machette  
 William Bradford MacLane  
 Thomas Linder Marshall  
 Harold Obernauer  
 Henry Montague Smith, Jr.  
 Edward Douglas Snyder

## FIRST DISPUTES

Stephen Merrell Clement, Jr.  
 David Lewis Daggett  
 William Kountz Fitch  
 Elton Hoyt, 2d  
 Tsu En Ing  
 Francis Bates Jennings  
 Richard Jente  
 Walter Seth Logan, Jr.  
 Nelson Whitaker McCormick  
 Alexander Lawton Mackall  
 Thomas Means  
 Oliver Cromwell Morse, Jr.

Francis Ward Paine  
 George Stewart Pomeroy, Jr.  
 Marsh Klock Powers  
 William Silliman Rogers  
 George Henry Sanderson  
 Roger Sherman  
 Michael Nathaniel Slotnick  
 William Stricker, Jr.  
 Ralph Palmer Uptegrove  
 Ernest Ross Warren  
 Ralph Deane Whipple

## SECOND DISPUTES

Frank Trowbridge Bailey  
 Walter Barnum  
 David Bellamy  
 George Lamb Buist, Jr.  
 Edward Harris Coy  
 Russell Sargent Fenn  
 Richard Kingsley Hawes  
 John Heron  
 Chalmers Holbrook  
 William Abraham Kincaid, Jr.  
 Max David Kirjassoff  
 Charles Ramsey McCulloch  
 Donald Bentley McLaury

Meade Minnigerode  
 Daniel Mungall, Jr.  
 Frederick James Murphy  
 Arthur Murray, Jr.  
 Kirk Bassett O'Ferrall  
 Ward Edgerly Pearson  
 Stephen Holladay Philbin  
 Reginald Roome  
 Frank Guiles Roth  
 Chung-hsüan T'ang  
 Edwin Morey Waterbury  
 Earl Trumbull Williams  
 Ruthven Adriance Wodell

## FIRST COLLOQUIES

Fuller Forbes Barnes  
 Stanhope Bayne-Jones  
 Hildreth Benner  
 Henry Payne Bingham  
 Arthur Pierce Coates  
 Thompson Dean  
 Kilbourn Smith Dennis  
 Albert De Silver  
 George Gregg Fuller  
 Charles Allen Goddard  
 Tappan Gregory  
 Walter Frank Hayward, Jr.  
 Morgan Hebard  
 Thomas Hewes

Edward Ingraham  
 Frank Williams Jones, Jr.  
 Frederick Clinton Lake, Jr.  
 James Taber Loree  
 Earl Clarence MacArthur  
 Charles Patrick McKiernan  
 Buckingham Miller  
 Louis David Minsk  
 Garnett Morgan Noyes  
 Howard Vincent O'Brien  
 Ralph Harlan Pierce  
 Guy Meredith Russell  
 Edward Palmer Seymour  
 William Hawthorne Shields, Jr.

**FIRST COLLOQUIES—continued**

David Parker Smith  
Douglas Tracy Smith  
Alexander Berthold Timm

George Charles Wilson  
Sheldon Smith Yates

**SECOND COLLOQUIES**

Roswell Mears Austin  
Herbert Howard Baker  
Edward Shippen Barnes  
John de Koven Bowen  
Thomas Wilson Bowers  
Howard Cordis Carter  
Wilbur Fisk Davis  
Charles Leverett English  
Gilbert Bishop Ferris  
James Drayton Heard  
Henry Glen Heedy  
Harold Jacob Hotton  
Carlton Clarke Jewett  
Arthur Godwyn King

Judson Stuart Landon  
Dana Turley Leavenworth  
Daniel Herman Myers  
Arthur Theodore Nabstedt  
Lawrence Harper Norton  
George Fish Parsons, Jr.  
Charles Baird Price  
Arthur Frederick Robinson  
Arthur Sewall  
Charles Messinger Steele  
Adrian Van Sinderen  
William Herbert Wood  
Edward Farrand Wright  
Chung Lui Yao

**HONORS IN ENGLISH COMPOSITION, CLASS OF 1910**

CHARLES DUDLEY ARMSTRONG  
MORRIS HARRY BEHRMAN  
SAMUEL MICHAEL COHEN  
EDWARD ELY CURTIS  
DONALD RYDER DICKEY  
CHARLES PASCAL FRANCHOT  
ROBERT DUDLEY FRENCH  
CHARLES MARK GILL  
STEPHEN EDWARDS KEELER, JR.  
ELMER DAVENPORT KEITH

ROBERT BURR KING  
HARRY JACOB KUGEL  
BENJAMIN LIONEL LIBERMAN  
DANIEL MUNGALL, JR.  
THOMAS LAWRASON RIGGS  
WILLIAM SILLIMAN ROGERS  
ROBERT ALPHONSO TAFT  
HOWARD DE FOREST WIDGER  
WAYLAND WELLS WILLIAMS

**HONORS IN STUDIES OF FRESHMAN YEAR, CLASS OF 1911**

CHARLES EDWARD CLARK  
JAMES DWIGHT DANA  
RODNEY DEAN  
JOEL ELLIS FISHER, JR.  
MARK ANTHONY HALL  
MERRILL GEORGE HASTINGS  
WILLIAM ARCHIBALD MCAFEE  
HOWARD FRANCIS PHIPPS

LAWRENCE WILLIAM PHIPPS  
ROY ROSS  
BERNARD WERTHEIMER SCHARFF  
FREDERICK DWIGHT SEWARD  
CLARENCE PROCTOR THOMAS  
EVERETT OYLER WATERS  
LAWRENCE RAYMOND WHEELER  
STANLEY THOMAS WILLIAMS

Harold Duncan Aikman  
Stanley Ernest Brown  
William Anthony Curran  
John Bourne Dempsey  
Clinton Ellsworth Farnham  
Arthur Amory Gammell  
Edward Harrah  
James Theodore Hillhouse  
Carroll Clark Hincks  
Carl Hitchcock  
Allen Skinner Hubbard  
Frederick Boughton Keppy

Edward Jones Kilduff  
Floyd Eugene Lamb  
Cornelius Ennis Lombardi  
Stanley Penfield Mead  
Allen Danforth Pettee  
Francis Fitz Randolph  
Fred Carl Reckert  
Francis Bayard Rives  
Fidardo Reuben Serri  
Howard Francis Shattuck  
Edmund Courtland Stanton

Thomas Joseph Aubrey  
 James Lenox Banks, Jr.  
 Harold Benjamin Chapman  
 Joseph Connolly  
 Henry Barnard Davis  
 William Brooke Dunwoody  
 Thomas William Durkin  
 Howard Tallmadge Foulkes  
 Robert Philip Goldman  
 John Greenebaum  
 Harold Talbot Hartwell  
 Charles Virgil Hickox, Jr.  
 Guy Morris Howland  
 Walter Jamison  
 William Turney Kimber

Davis Laird Krebs, Jr.  
 Thomas Armitage Larremore  
 Raymond Williams Lewis  
 Abbot Augustus Low, Jr.  
 William Erle McMicken  
 Paul Griswold Macy  
 Lawrence Stillman Morrison  
 Paul Patterson  
 Robert Alexander Patterson  
 Mason Brayman Starring, Jr.  
 Harold Hayward Thresher  
 Gouverneur Morris Wilkins  
 Turnbull  
 Alexander Royal Wheeler

## THE SHEFFIELD SCIENTIFIC SCHOOL

### CLASS OF 1908

#### GENERAL TWO-YEAR HONORS FOR EXCELLENCE IN ALL STUDIES

##### BIOLOGICAL COURSE

SELIM WALKER MCARTHUR

##### CHEMICAL COURSE

CONSTANTINE MUGURDITCH  
 CONSTANTIAN  
 MORRIS SEIDE FINE  
 HERBERT HARTLEY GUEST

##### CIVIL ENGINEERING COURSE

HAROLD CRUSIUS BIRD  
 HOWARD EMERSON CHURCH  
 NEJIB HOVHANNES JEBEJIAN  
 VALENTINE ODELL KETCHAM  
 WILLIAM THORP STURGES  
 CHING CHUN WANG

##### ELECTRICAL ENGINEERING COURSE

RAYMOND LESTER BROWN  
 ROGER BALDWIN COLTON  
 LYLE GORDON FEAR

##### JOHN IRVING HULL

HAROLD TURNBULL PRITCHARD

##### MECHANICAL ENGINEERING COURSE

FREDERIC QUINTARD BOYER  
 NORMAN ALVAH LEONARD  
 LESTER AMBLER NOTHNAGLE

##### MINING ENGINEERING COURSE

CARRYL ARTHUR ASHER  
 LOUTFI HAGOP BABIKIAN  
 NATHANIEL HERZ  
 LEWIS A. PARSONS  
 HENRY DEWITT SMITH  
 WILLIAM WALTER TAYLOR

##### SELECT COURSE

GEORGE LEWIS EMMONS  
 MEDARY WILSON STARK

#### HONORS IN SPECIAL STUDIES AWARDED TO STUDENTS NOT RECIPIENTS OF GENERAL HONORS

##### ENGLISH AND HISTORY

ALLEN STARR PAGE  
 RALPH FIELD WYTHE PECK

##### ENGLISH, HISTORY, AND SOCIAL SCIENCES

EDWARD FRATUS CONGDON

##### FRENCH

HERMAN WALKER FARRAR  
 KENNETH WILLIAM LEIGHTON

##### GERMAN

LUCIUS FELIX HERZ

##### HISTORY AND SOCIAL SCIENCES

CHARLES S. HART  
 WILLIAM PATTON HOPKINS  
 AARON LUFKIN KELSEY  
 JESSE BROOKS NICHOLS

##### MECHANICAL ENGINEERING

RALPH HOLMES STONE



## CLASS OF 1909

## HONORS FOR EXCELLENCE IN ALL STUDIES OF THE JUNIOR YEAR

## BIOLOGICAL COURSE

MAURICE HOPE GIVENS  
ROBERT CURTIS LEWIS  
DONALD GARDNER RUSSELL

## CHEMICAL COURSE

HARLEY TAYLOR PECK

## CIVIL ENGINEERING COURSE

JOHN MAYHEW BALDWIN  
FRITZ WILLIAM BEINECKE  
FREDERIC BRADLEY LEWIS  
HOWARD THOMAS WARE

## ELECTRICAL ENGINEERING COURSE

TATSUNG CHANG  
WILLIAM BYERS DENTON  
ROBERT PRINCE WINTON

## FORESTRY COURSE

OLIVER FREDERICK BISHOP  
GEORGE MOTTU CHANDLER  
WILLIAM HALLOWELL GALLAHER

MECHANICAL ENGINEERING  
COURSE

FRED HAROLD DANIELS  
BURTIS BARTON MCCARN  
WILLIAM JOSEPH WATERS

## MINING ENGINEERING COURSE

CARLETON WARD BONFILS  
PAO-VUNG JUI

## SELECT COURSE

JOHN LEONARD BAGG  
KENNETH TUTTLE BARNABY  
THOMAS FOX  
EDGAR BILLINGS HOWARD  
GEORGE HUGHES KAERCHER  
ROBERT SNYDER KING  
RAYMOND BURTON MUNSON  
BENJAMIN THAW, JR.

HONORS IN SPECIAL STUDIES AWARDED TO STUDENTS NOT RECIPIENTS  
OF GENERAL HONORS

## CHEMISTRY

DWIGHT WARREN POND

## CIVIL ENGINEERING

RAYMOND AUGUSTUS POND

## ENGLISH

JOSEPH WHITMORE KNAPP

## ENGLISH COMPOSITION

RICHARD ERNST WILES

## ENGLISH AND ANTHROPOLOGY

LLOYD SEARING EMORY

## FRENCH

WILLIAM HOYT BARTLETT  
ROBERT EDWARD DAKIN

## FRENCH AND GERMAN

JOHN FRANCIS SAGARINO

## GERMAN

HAROLD FREDERICK DELACOUR  
LUCIEN BALL HORTON  
ROBERT WEIR LA MONTAGNE  
ROBERT ANNAN RILEY  
JAMES EDWARD SCHALL, JR.  
FREDERIC HART WELLS

## MATHEMATICS

HENRY LEROY LEWIS

## THE DIVINITY SCHOOL

DEGREE OF BACHELOR OF DIVINITY, *magna cum laude*

Daniel Webster Kurtz, B.A. Juniata College 1905

DEGREE OF BACHELOR OF DIVINITY, *cum laude*

Theodore Burger Lathrop, B.A. Beloit College 1905

Pearl Eugene Mathias, B.A. Lebanon Valley College 1905

## THE MEDICAL SCHOOL

THE DEGREE OF DOCTOR OF MEDICINE, *cum laude*  
 Perley Bickford Chandler, B.A. Yale University 1905  
 Hugh Francis Keating  
 Clement Channing Nevin  
 Ira Hart Noyes  
 John Francis O'Brien

## THE LAW SCHOOL

DEGREE OF MASTER OF LAWS, *cum laude*  
 William Henry Beeler  
 Timothy James Campbell  
 Francisco Afan Delgado  
 Samuel Stephen McCahill

DEGREE OF BACHELOR OF LAWS, *summa cum laude*  
 Nathaniel Paul Sterne

DEGREE OF BACHELOR OF LAWS, *magna cum laude*  
 William Mathew Aiken  
 Walter Preston Armstrong, B.A. Yale University 1906

DEGREE OF BACHELOR OF LAWS, *cum laude*  
 William Andrew Bree  
 Chauncey Irving Clark  
 Harold Espe Drew, B.A. Yale University 1906  
 William Edward Egan  
 Karl Goldsmith  
 Richard Carley Hunt  
 Harold Burton Jamison, B.A. Yale University 1906  
 Clifton Junius O'Harra, Jr., B.A. Carthage College 1906  
 Charles Lyman Stewart

### HONORS IN THE SECOND YEAR CLASS

Edward Robert McGlynn  
 Rolla Hunter McQuiston  
 Denis Thomas O'Brien  
 Edward Colpitts Weyman, B.A. University New Brunswick 1902,  
 B.A. Harvard University 1903, M.A. Yale University 1905  
 Frederick Holme Wiggin, Jr., B.A. Yale University 1904

### HONORS IN THE FIRST YEAR CLASS

Howard Francis Bishop, B.A. Yale University 1907  
 Samuel William Botwick  
 Harry Burnstine  
 James Edward Connor, Jr.  
 Peter Tracy Dondlinger, B.A. National Normal University 1899,  
 Ph.D. Yale University 1904  
 George Hains, Jr., B.A. University of Georgia 1906  
 Clarence Russell Hall, B.A. Yale University 1907  
 Charles Kenneth Wynne

## AWARDS OF PRIZES AND SCHOLARSHIPS UNIVERSITY PRIZES

AWARDED IN 1908

JOHN A. PORTER PRIZE—ALFRED ARUNDEL MAY, B.A. University of Wooster 1900, M.A. Yale University 1907.

JAMES GORDON BENNETT PRIZE—Class of 1908, WILLIAM SMITH CULBERTSON.

COBDEN CLUB SILVER MEDAL—Class of 1908, PHILIP SCUDDER ORDWAY.

ALBERT STANBURROUGH COOK PRIZE IN POETRY—Class of 1910, ARTHUR EDWARD BAKER; with honorable mention of CHAPIN HOWARD, of the Class of 1908.

JACOB COOPER PRIZE IN GREEK PHILOSOPHY—Class of 1908, ALBERT EDWIN AVEY.

PHILO SHERMAN BENNETT PRIZE—Class of 1908, THOMAS ANTHONY THACHER.

### GRADUATE FELLOWS AND SCHOLARS, 1908-09

[SEE PAGES 51-54]

## ACADEMICAL DEPARTMENT

### SCHOLARS OF THE HOUSE, YALE COLLEGE, 1908-09†

BRISTED SCHOLAR—Class of 1908, HENRY HOLLISTER JACKSON.

WOOLSEY SCHOLARS—Class of 1909, KARL EUGENE MURCHEY; Class of 1910, ROBERT ALPHONSO TAFT§; Class of 1911, FREDERICK DWIGHT SEWARD.

HURLBUT SCHOLAR—Class of 1911, CARROLL CLARK HINCKS.

RUNK SCHOLAR—Class of 1911, JOEL ELLIS FISHER, JR.

SCOTT HURTT SCHOLARS—Class of 1909, CHARLES SOUTTER CAMPBELL; Class of 1910, SAMUEL MICHAEL COHEN.

THOMAS GLASBY WATERMAN SCHOLARS—Class of 1909, WILSON McCLAUGHRY HUME and JOHN MINOR STETSON.

ALFRED BARNES PALMER SCHOLAR—Class of 1912, JAMES KIRBY BURRELL.

DANIEL LORD, JR., SCHOLAR—Class of 1909, RICHARD HERBERT BENNETT.

LEARNED SCHOLARS—Class of 1909, KARL EUGENE MURCHEY; Class of 1911, ROY ROSS.

JOHN J. COX SCHOLAR—Class of 1910, MORRIS HARRY BEHRMAN.

† Tuition Scholars and Special Beneficiary Scholars are not included here.

§ The two leading contestants, Mr. Cohen and Mr. Taft, were judged equal; the award was made by lot.

ROBERT CALLENDER SCHOLAR—Class of 1910, ROBERT DUDLEY FRENCH.  
JOHN BENNETTO SCHOLARS—Class of 1909, JAMES LUKENS McCON-  
AUGHY ; Class of 1910, JOHN JOSEPH MACCARTHY.

MEAD SCHOLAR—Class of 1907, EDWIN DEEKS HARVEY.

WALTER JOSEPH AUSTRIAN SCHOLAR—Class of 1910, JAMES HAROLD  
FLYE.

GEORGE BENEDICT SHERMAN SCHOLAR—Class of 1911, MARK ANTHONY  
HALL.

ANTHONY D. STANLEY SCHOLAR—Class of 1909, HOWARD BENJAMIN  
SLIDER.

PLAINFIELD SCHOLARS—Class of 1909, JOHN BENJAMIN WESTCOTT ;  
Class of 1910, GEORGE HENRY SANDERSON.

LISPENARD STEWART WITHERBEE SCHOLARS—Class of 1909, EDWARD  
FRANCIS JEFFERSON ; Class of 1910, ARTHUR VANBRUNT.

CHICAGO SCHOLAR—Class of 1909, ELIAS ALFRED JOHNSON.

CLEVELAND SCHOLAR—Class of 1912, CHARLES DALLAS SUNDERLAND.

SEATTLE SCHOLAR—Class of 1912, not yet appointed at date of publica-  
tion.

PHILADELPHIA SCHOLAR—Class of 1912, AARON LEVAN DETTRA.

#### UNDERGRADUATE PRIZES AND PREMIUMS, 1908

##### PRIZES NOT RESTRICTED TO A SINGLE CLASS

LUCIUS F. ROBINSON LATIN PRIZES—Class of 1908, 1st Prize, ARTHUR  
HAROLD WESTON ; 2d Prize, ROBERT WILLIAM ROSENBERG ; 3d  
Prize, HAROLD THOMAS FULLER HUSTED.—Class of 1909, 3d  
Prize, ROBERT NOAH GRISWOLD.—Class of 1910, 1st Prize,  
BENJAMIN LIONEL LIBERMAN ; 2d Prize, SAMUEL MICHAEL  
COHEN ; 3d Prize, CHARLES FREDERIC JEFFERSON.

THACHER PRIZES—Class of 1908, WILLIAM WILFORD WYNKOOP ; Class  
of 1909, EDWARD OTIS PROCTOR.

JOHN HUBBARD CURTIS PRIZE—Class of 1908, LEWIS CHARLES  
EVERARD.

BENJAMIN F. BARGE MATHEMATICAL PRIZES—Class of 1910, 1st Prize,  
THEODORE HARRY BROWN ; 2d Prize, SAMUEL MICHAEL COHEN ;  
3d Prize, EDWIN A WHITMAN.—Class of 1911, 1st Prize, JOEL  
ELLIS FISHER, JR. ; 2d Prize, ROY ROSS and EVERETT OYLER  
WATERS ; 3d Prize, CHARLES EDWARD CLARK and SAMUEL SIKES  
BOARD.

JOHN ADDISON PORTER PRIZE IN AMERICAN HISTORY—Class of 1909,  
RUFUS BRADFORD BURNHAM, with honorable mention of THOMAS  
ANTHONY THACHER, of the Class of 1908.

ANTHONY D. STANLEY MATHEMATICAL PRIZES—Class of 1909, 1st  
Prize, JOHN MINOR STETSON.

ANDREW D. WHITE HISTORY PRIZE—Class of 1910, EDWIN A  
WHITMAN.

## SENIOR PRIZES

DEFOREST PRIZE MEDAL—Class of 1908, CHARLES SEYMOUR.

TOWNSEND PREMIUMS—Class of 1908, WILLIAM SMITH CULBERTSON, WILLIAM EMANUEL HENDRICKS, JOSEPH WILLIAM MURPHY, LESTER WILLIAM PERRIN, and WILLIAM WILFORD WYNKOOP.

DEFOREST MATHEMATICAL PRIZES—Class of 1908, 2d Prize, WALTER REMY DRAY.

## JUNIOR PRIZES

WINTHROP PRIZES—Class of 1909, no awards.

SCOTT PRIZE IN GERMAN—Class of 1909, CLARENCE FLACK GRAHAM.

SCOTT PRIZE IN FRENCH—Class of 1909, HENRY BRUSH RICHARDSON.

HENRY JAMES TENEYCK PRIZES—Class of 1909, 1st Prize, MAXWELL OSWALD PARRY; 2d Prizes, JAMES LUKENS MCCONAUGHY, FREDERICK OGDEN MASON, EDWARD OTIS PROCTOR, and HAROLD PHELPS STOKES; 3d Prizes, NEAL TOWNLEY CHILDS, CAROLUS THOMAS CLARK, and IRVIN EDWARD MARGULIES.

## SOPHOMORE PRIZES

C. WYLLYS BETTS PRIZE—Class of 1910, ELMER DAVENPORT KEITH.

COLLEGE PREMIUMS IN DECLAMATION—Class of 1910, 1st Grade, WARREN GILBERT DAVIS; 2d Grade, WILLIAM YOUNG DUNCAN.

## FRESHMAN PRIZES

BERKELEY PREMIUMS IN LATIN COMPOSITION—Class of 1911, 1st Grade, RODNEY DEAN, CLINTON ELLSWORTH FARNHAM, JOEL ELLIS FISHER, JR., CARROLL CLARK HINCKS, and GUY MORRIS HOWLAND; 2d Grade, WILLIAM PORTER NORCOM, LAWRENCE WILLIAM PHIPPS, FRANCIS BAYARD RIVES, CHARLES PHINNEY RODENBACH, ROY ROSS, BERNARD WERTHEIMER SCHARFF, and FREDERICK DWIGHT SEWARD.

McLAUGHLIN PRIZES—Class of 1911, 1st Prize, WALDO DAVID FRANK; 2d Prize, FRANCIS BAYARD RIVES.

WINSTON TROWBRIDGE TOWNSEND PRIZES—Class of 1911, JOHN BOURNE DEMPSEY and OLIVER HARRISON SMITH.

## ENTRANCE PRIZES

HUGH CHAMBERLAIN GREEK PRIZE—Class of 1912, SELDEN PALMER SPENCER, JR., of St. Louis, Mo., with honorable mention of GEORGE VAN SANTVOORD, of Troy, N. Y., who both prepared for College at the Hotchkiss School, Lakeville, Conn.

SAMUEL HENRY GALPIN LATIN PRIZE—Class of 1912, no award.

## PRIZES AWARDED IN THE SHEFFIELD SCIENTIFIC SCHOOL, 1908

### RECIPIENTS OF THE SHEFFIELD GRADUATE SCHOLARSHIPS

FREDERIC QUINTARD BOYER

HOWARD EMERSON CHURCH

NATHAN ROSCOE FRANCIS, B.A.

Yale University 1902

NATHANIEL HERZ

DAVID DURYEA IRWIN

NEJIB HOVHANNESS JEBEJIAN,

B.A. Central Turkey College

1903

### SHEFFIELD UNDERGRADUATE PRIZES

#### CLASS OF 1908.

FOR EXCELLENCE IN CIVIL ENGINEERING—NEJIB HOVHANNESS JEBEJIAN,  
B.A. Central Turkey College 1903, with honorable mention of  
HAROLD CRUSIUS BIRD.

FOR EXCELLENCE IN ELECTRICAL ENGINEERING—RAYMOND LESTER  
BROWN.

FOR EXCELLENCE IN MECHANICAL ENGINEERING—FREDERIC QUINTARD  
BOYER, with honorable mention of LESTER AMBLER NOTHNAGLE.

FOR EXCELLENCE IN MINING ENGINEERING—NATHANIEL HERZ, with  
honorable mention of HENRY DEWITT SMITH.

FOR EXCELLENCE IN HISTORY—CHARLES S. HART.

THE BELKNAP PRIZE IN BIOLOGICAL STUDIES—SELIM WALKER MC-  
ARTHUR.

THE BELKNAP PRIZE IN GEOLOGICAL STUDIES—NATHANIEL HERZ, with  
honorable mention of CARRYL ARTHUR ASHER.

THE TUCKER PRIZE IN SANITARY ENGINEERING—HERMAN LEWIS  
WITTSTEIN.

#### CLASS OF 1909.

THE ROGERS SCHOLARSHIP, for excellence in the studies of the Bio-  
logical Course—ROBERT CURTIS LEWIS.

THE PENFIELD PRIZE, for excellence in Mineralogy, PAO-VUNG JUI.

#### CLASS OF 1910

FOR EXCELLENCE IN ALL THE STUDIES OF FRESHMAN YEAR—Divided  
between WILLIAM STORRS HOYT HAMILTON and ROGER SHERMAN  
SPERRY.

FOR EXCELLENCE IN PHYSICS—ROGER SHERMAN SPERRY.

FOR EXCELLENCE IN CHEMISTRY—In Chemistry B.—WILLIAM STORRS  
HOYT HAMILTON—In CHEMISTRY A.—ROGER SHERMAN SPERRY,  
with honorable mention of JACOB SHULANSKY and WINFRED  
CLARK WARNER.

FOR EXCELLENCE IN MATHEMATICS—WILLIAM STORRS HOYT HAMILTON,  
with honorable mention of YAO-CHANG HENRY HSIN.

FOR EXCELLENCE IN MECHANICAL DRAWING—WALTER RONALD MORSE  
FOR EXCELLENCE IN GERMAN—Divided between ARTHUR JOSEPH HILL  
and CECIL GEORGE YOUNG, with honorable mention of LOUIS  
SOLOMON KIRJASSOFF.

FOR EXCELLENCE IN FRENCH—GILBERT NELSON JEROME, with honorable  
mention of YAO-CHANG HENRY HSIN.

FOR EXCELLENCE IN ENGLISH—ROGER SHERMAN SPERRY, with honor-  
able mention of CARL FERGUSON.

FOR EXCELLENCE IN GENERAL BIOLOGY—LOUIS JAMES CAMPBELL.

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### PRIZES AWARDED IN THE SCHOOL OF THE FINE ARTS, 1908

WILLIAM WIRT WINCHESTER FELLOWSHIP—AUGUST SPAENKUCH.

ALICE KIMBALL ENGLISH PRIZES—1st Prize, THEODORE DEIDRICKSON,  
JR.; 2d Prize, ALBERT CARL LOHMANN; 3d Prize, divided  
equally between HAZEL LYNN BULKLEY, ELIZABETH KATHARINE  
ATWATER KIRKMAN, and SOPHIA TRYON STARR.

ETHEL CHILDE WALKER PRIZE—for greatest progress in the work of  
the first year, VIOLA ETHEL HYDE; with honorable mention of  
JOSEPH ADELARD NUCKLE.

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### PRIZES AWARDED IN THE DEPARTMENT OF MUSIC, 1908

LOCKWOOD SCHOLARSHIPS—Singing, EFFIE ELLA GRANT; Organ-  
Playing, divided between FRANCIS DAVID TIERNAN and WAL-  
TER EARLE HARTLEY.

PRIZES FOR BEST ENTRANCE EXAMINATION IN PIANO-PLAYING—CLARA  
WENTWORTH MIX, ROBERT HENRY PRUTTING.

MORRIS STEINERT PRIZE FOR BEST ORIGINAL COMPOSITION—SETH  
DANIELS BINGHAM, JR., B.A. Yale University 1904.

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### PRIZES AWARDED IN THE MEDICAL SCHOOL, 1908

CAMPBELL GOLD MEDAL—Class of 1908, JOHN FRANCIS O'BRIEN.

KEESE PRIZE—Class of 1908, PERLEY BICKFORD CHANDLER, B.A. Yale  
University 1905; with honorable mention of GEORGE CONKLIN  
KINNE.

ALUMNI ANATOMICAL PRIZE. Awarded for the best work in Anatomy  
in the First and Second Year Classes—Class of 1911, CHARLES  
GARDINER BARNUM, M.A. Middlebury College 1907; with  
honorable mention of FORREST GLENMORE CROWLEY and SAMUEL  
CLARK HARVEY, PH.B. Yale University 1907.

**PRIZES AWARDED IN THE DIVINITY SCHOOL**

**DOWNES-MERSICK PRIZES** for excellence in reading of Scripture and Hymns—Class of 1909, 1st Prize, WALTER LEWIS FERRIS; 2d Prize, ELMER EDWIN BURTNER.—Class of 1910, 1st Prize, FRRD LYMAN HALL; 2d Prize, SAMUEL RICHARD MORSELL.

**MERSICK PRIZES IN SERMONIC ELOCUTION**—Class of 1909, 1st Prize, WALTER LEWIS FERRIS; 2d Prize, PHILIP BARROWS WHITEHEAD.

**MERSICK COMMENCEMENT PRIZES**—1st Prize, DANIEL WEBSTER KURTZ; 2d Prize, THEODORE BURGER LATHROP, PEARL EUGENE MATHIAS, WILLIAM ARTHUR SHELTON.

**MERSICK PRIZES** for general excellence in the department of Elocution for the year—Class of 1908, 1st Prize, JOHN LEE MADDOX; 2d Prize, ROBERT BELL; 3d Prize, WILLIAM ARTHUR SHELTON.—Class of 1909, 1st Prize, LUTHER BATEMAN HENDERSON; 2d Prize, ELMER EDWIN BURTNER; 3d Prize, DEAN ROCKWELL WICKES.—Class of 1910, 1st Prize, ROBERT ELMER CHANDLER; 2d Prize, JOHN KIVETT ARNOT; 3d Prize, ARTHUR R. CLIPPINGER.

**THE SAMUEL HARRIS PRIZE IN SYSTEMATIC THEOLOGY**—ANGELO EUSEBIUS SHATTUCK.

**FIRST TERM, 1907-1908**

**FOGG SCHOLARSHIPS**—Class of 1908, DANIEL WEBSTER KURTZ, B.A. Juniata College 1905, PEARL EUGENE MATHIAS, B.A. Lebanon Valley College 1905; Class of 1909, LUTHER BATEMAN HENDERSON, B.S. New York University 1906.

**ALLIS SCHOLARSHIPS**—Class of 1908, THEODORE BURGER LATHROP, B.A. Beloit College 1903; Class of 1909, ELMER EDWIN BURTNER, B.A. Otterbein University 1906, WASHINGTON IRVING MAURER, B.A. Beloit College 1904; Class of 1910, ROBERT ELMER CHANDLER, B.A. Yale University 1904, EDWIN DEEKS HARVEY, B.A. Yale University 1907, MILTON FREDERICK WITTLER, B.A. Pomona College 1907.

**SECOND TERM, 1907-08**

**FOGG SCHOLARSHIPS**—Class of 1908, THEODORE BURGER LATHROP, B.A. Beloit College 1903, PEARL EUGENE MATHIAS, B.A. Lebanon Valley College 1905; Class of 1909, WASHINGTON IRVING MAURER, B.A. Beloit College 1904, DEAN ROCKWELL WICKS, PH.B. University of Chicago 1905; Class of 1910, ROBERT ELMER CHANDLER, B.A. Yale University 1904.

**ALLIS SCHOLARSHIPS**—Class of 1908, DANIEL WEBSTER KURTZ, B.A. Juniata College 1905; Class of 1909, ELMER EDWIN BURTNER, B.A. Otterbein University 1906, LUTHER BATEMAN HENDER-



SON, B.S. New York University 1906; Class of 1910, AUGUSTUS WILLIAM GIDART, B.A. University of Chicago 1907, MARK GORDON INGRAM, B.A. Waynesburg College 1904, MILTON FREDERICK WITTLER, B.A. Pomona College 1907.

FIRST TERM, 1908-09

FOGG SCHOLARSHIPS—Class of 1909, ELMER EDWIN BURTNER, B.A. Otterbein University 1906, LUTHER BATEMAN HENDERSON, B.S. New York University 1906, DEAN ROCKWELL WICKES, PH.B. University of Chicago 1905; Class of 1910, ROBERT ELMER CHANDLER, B.A. Yale University 1904, MILTON FREDERICK WITTLER, B.A. Pomona College 1907.

ALLIS SCHOLARSHIPS—Class of 1909, WASHINGTON IRVING MAURER, B.A. Beloit College 1904, PHILIP BARROWS WHITEHEAD, B.A. Beloit College 1906; Class of 1910, EDWIN DEEKS HARVEY, B.A. Yale University 1907, MARK GORDON INGRAM, B.A. Waynesburg College 1904, CLIFFORD GRIFFITH THOMPSON, B.A. Young Harris College 1903.

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**PRIZES AWARDED IN THE LAW SCHOOL,  
1908**

TOWNSEND PRIZE—WALTER PRESTON ARMSTRONG, B.A. Yale University 1906.

JOSEPH PARKER PRIZE—CHARLES ALSTON SMYTHWICK, B.A. Shaw University 1904.

MONTGOMERY PRIZE—NATHANIEL PAUL STERNE.

JEWELL PRIZE—FREDERICK HOLME WIGGIN, Jr., B.A. Yale University 1904.

BETTS PRIZE—PETER TRACY DONDLINGER, B.A. National Normal University 1899, PH.D. Yale University 1904.

The KENT CLUB DIPLOMAS—SAUL BERMAN, DAVID IGNATIUS MCCAHILL, LL.B. Drake University 1907, WILLIAM JOSEPH MCKENNA, THOMAS JOSEPH MOLLOY, ARTHUR BERNARD O'KEEFE, CHARLES ALSTON SMYTHWICK, B.A. Shaw University 1904.

The WAYLAND CLUB DIPLOMAS—DONALD ALLISON ADAMS, B.A. Carleton College 1903, WALTER PRESTON ARMSTRONG, B.A. Yale University 1906, ARTHUR WILLIS BLACKMAN, B.A. Yale University 1905, TIMOTHY JAMES CAMPBELL, B.A. Monmouth College 1904, M.A. Monmouth College, 1907, LL.B. Drake University 1907, HAROLD ESPE DREW, B.A. Yale University 1906, WILLIAM VINCENT GRIFFIN, HAROLD BURTON JAMISON, B.A. Yale University 1906.

The KENT CLUB PRIZES FOR THE BEST EXAMINATION IN PARLIAMENTARY LAW, divided between WALTER PRESTON ARMSTRONG, B.A. Yale University 1906, and CHAUNCEY IRVING CLARK.



PART VII

LISTS OF STUDENTS, DIRECTORY,  
AND INDEX



# LISTS OF STUDENTS

## DEPARTMENT OF PHILOSOPHY AND THE ARTS

### GRADUATE SCHOOL

[The major subject of study is stated in each case. Students marked "A." are pursuing courses of study in absence, under the direction of the Faculty, for the degree of Master of Arts, Mechanical Engineer, or Civil Engineer.]

Rose Abel, B.A. University of Kansas 1901	<i>Aberdeen, Wash.</i> English	74 Lake pl.
Harry Leslie Agard, B.A. Wesleyan University 1904, M.A. Yale University 1908	<i>New Britain, Conn.</i> Mathematics	206 F.
Antonio Noble de las Alas, LL.B. Indiana University 1908	<i>Taal, Batangas, P. I.</i> Law and Economics	609 E. D.
William Talbot Allison, B.A. University of Toronto 1899, M.A. 1900, B.D. Yale University 1901	<i>Middlefield, Conn.</i> English	Middlefield
Malo Marius Amunson, B.A. Butler College 1905, M.A. 1906	<i>Wabash, Ind.</i> Sociology	622 E. D.
Coleman Emanuel Andel, B.A. Yale University 1902, LL.B. 1904	<i>Belleville, Ill.</i> German	A.
Christopher Magee Anderson, B.A. Yale University 1904	<i>Pittsburg, Pa.</i> English	A.
Clarence Edward Andrews, B.A. Yale University 1906, M.A. 1908.	<i>Newburgh, N. Y.</i> English	200 F.
Anna Margaret Arbuckle, B.A. Grove City College 1904	<i>New Haven, Conn.</i> English	33 Howard av.
George Franklin Atwater, PH.B. Yale University 1908	<i>New Haven, Conn.</i> Mechanical Engineering	1776 State st.
Albert Edwin Avey, B.A. Yale University 1908	<i>Cincinnati, O.</i> Philosophy	211 F.
George Alfred Baitsell, B.S. Central University of Iowa 1908	<i>Fremont, Ia</i> Biology	8 Prospect pl.
Lorne Webster Barclay, B.A. Bethany College (W. Va.) 1906, M.A. 1907	<i>Poplar Hill, Ont.</i> Social Science	198 Hamilton st.
Alpha Winifred Barlow, B.S. Smith College 1896	<i>New Haven, Conn.</i> Biblical Literature	89 Bristol st.
Ida Barney, B.A. Smith College 1908	<i>New Haven, Conn.</i> Mathematics	346 Whitney av.
Robert James Beach, B.A. Wesleyan University 1890, B.D. Drew Theological Seminary 1893, M.A. New York University 1899	<i>So. Meriden, Conn.</i> English	So. Meriden

Harry Beal, B.A. Yale University 1906	Concord, N. H. English	A.
Ralph Culver Bennett, B.A. Yale University 1906	Chicago, Ill.	A.
Samuel John Berard, PH.B. Yale University 1908	New Haven, Conn. 813 Orange st. Mechanical Engineering	
Harry Cleveland Blagbrough, B.A. Williams College 1907	Orange, Mass. Latin	711 W. D.
Carl William Blegen, B.A. University of Minnesota 1907, B.A. Yale University 1908	Minneapolis, Minn. Greek	192 F.
Alice Frances Blood, B.S. Massachusetts Institute of Technology 1903	Cambridge, Mass. Physiological Chemistry	37 Howe st.
Albert George Boesel, B.A. Ohio State University 1907	New Bremen, O. English	126 College st.
John Sidney Boman, B.A. University of Missouri 1902	Columbia, Mo. Mathematics and Social Science	1092 Yale P. O.
Zelly Adam Bonoff, M.D. Yale University 1904	New Haven, Conn. 387 George st. Physiological Chemistry	
Rowland Sherwood Bosworth, B.A. Yale University 1908	Providence, R. I. Chemistry	83 C.
Isaiah Bowman, B.S. Harvard University 1905	Brown City, Mich. Geology	203 York st.
Frederick Quintard Boyer, PH.B. Yale University 1908	Norwalk, Conn. Mechanical Engineering	216 Orchard st.
Normand Daggett Brainard, PH.B. Yale University 1906	Branford, Conn. Civil Engineering	709 W. D.
Alvin Chester Breul, B.A. Yale University 1906	Cheshire, Conn. German	A.
Leslie Burdette Briggs, B.A. University of California 1907, M.Lett. 1908, B.D. Pacific Theological Seminary 1908	Berkeley, Cal. Social Science	396 Elm st.
Wendell Stanton Brooks, B.A. Yale University 1908	Chicago, Ill. Latin	Wallingford
Harry Gunnison Brown, B.A. Williams College 1904	Troy, N. Y. Economics	691 W. D.
Mable Electa Buland, B.A. University of Washington 1904, M.A. 1908	Castle Rock, Wash. English	61 Trumbull st.
Horace Thomas Burgess, B.A. National Normal University 1905, B.A. Yale University 1906, M.A. 1907	Waynesville, O. Mathematics	700 W. D.
Josephine May Burnham, PH.B. University of Chicago 1901	New Haven, Conn. English	1304 Chapel st.

- Katharine Jeannette Bush, PH.D. *New Haven, Conn.* 133 Howe st.  
Yale University 1901 Natural Science
- Lucy Peck Bush *New Haven, Conn.* 133 Howe st.  
Botany
- Ronald Muirhead Byrnes, B.A. *Norwich, Conn.* 769 Yale P. O.  
Yale University 1908 History
- DeLorme Donaldson Cairnes, B.A. *Ottawa, Canada*  
Queen's University 1905, M.E. 1906 Geology
- Burton Howard Camp, B.A. *Middletown, Conn.* Middletown  
Wesleyan University 1901, Mathematics  
M.A. Harvard University 1907
- Gilbert Whitney Campbell, B.A. *Lexington, Ky.* 653 E. D.  
Transylvania University 1908, M.A. 1908 Philosophy
- Gordon Case *Peconic, N. Y.* 41 V.  
Yale University Social Science
- Ju Hsiang Chen, PH.B. *Canton, China* 909 Yale P. O.  
Yale University 1908 Engineering and Physics
- Frederick Waldemar Christensen, B.A. *State College, Pa.* 710 W. D.  
Kansas State Agricultural College 1900, Physiological Chemistry  
M.S. Pennsylvania State College 1908
- Howard Emerson Church, PH.B. *Rockville, Conn.* 57 Elm st.  
Yale University 1908 Sanitary Engineering
- Raymond Gilmore Clapp, B.A. *Boston, Mass.* 613 E. D.  
Boston University 1900, Biblical Literature  
B.D. Yale University 1903, M.A. 1904
- Evert Mordecai Clark, B.A. *Lancaster, O.* 227 F.  
Yale University 1905, M.A. 1906 English
- Elizabeth Whittlesey Cleaveland, PH.B. *Lakeville, Conn.* 133 Howe st.  
University of Chicago 1902 English
- Norman Parsons Clement, B.A. *Buffalo, N. Y.* A.  
Yale University 1907 English
- Reginald McIntosh Cleveland, B.A. *New York City* A.  
Yale University 1908 English
- Erma Eloise Cole, B.A. *Fayette, Ia.* 74 Lake pl.  
Upper Iowa University 1900 Greek
- Harry Thomas Collings, B.A. *Hamilton, N. Y.* 352 Crown st.  
Colgate University 1903, M.A. 1905 German
- Constantine Mugurditch Constantian, PH.B. *Killis, Turkey*  
Yale University 1908 277 Crown st.  
Chemistry
- Curtis Edward Cook, B.A. *Newtown, Conn.* Newtown  
Pennsylvania College 1903 English
- Orvyn Wesley Edgar Cook, B.A. *Los Angeles, Cal.* 75 Clark st.  
University of Southern California 1908 English

Charlton Dows Cooksey, PH.B. Yale University 1905	<i>New Haven, Conn.</i> 284 Orange st. Physics
Oscar Henry Cooper, Jr., B.A. Yale University 1908	<i>Abilene, Tex.</i> 35 High st. English
George Edward Copenhaver, B.A. Roanoke College 1908	<i>Bristol, Tenn.</i> 140 W. Economics
Donald John Cowling, B.A. Lebanon Valley College 1902, B.A. Yale University 1903, M.A. 1904	<i>Baldwin, Kans.</i> A. Philosophy
Urban Cronan, B.A. Yale University 1906, M.A. 1908	<i>New Haven, Conn.</i> 455 Orange st. Romance Languages
William Abraham Crowley, B.A. Kentucky University 1907, M.A. 1908	<i>Lexington, Ky.</i> 653 E. D. Economics
William Smith Culbertson, B.A. Emporia College 1907, B.A. Yale University 1908	<i>Emporia, Kans.</i> 204 F. Social Science
Elizabeth Eudora Curtis, B.A. Vassar College 1905	<i>New Haven, Conn.</i> 61 Trumbull st. Mathematics
Paul Curts, B.A. Yale University 1905, M.A. 1907	<i>Coldwater, Mich.</i> 3 Hillhouse av. German
George Dahl, B.A. Yale University 1908	<i>Chicago, Ill.</i> 203 F. Biblical Literature
Richard Ely Danielson, B.A. Yale University 1907	<i>Groton, Mass.</i> A. English
George Eugene Davis, B.A. Yale University 1902	<i>Hartford, Conn.</i> Hartford Classics
Arthur Spencer Dayton, B.A. West Virginia University 1907, LL.B. 1908	<i>Philippi, W. Va.</i> 119 Wall st. English
John Bellows DeForest, B.A. Yale University 1905	<i>Bridgeport, Conn.</i> Cheshire French
James Levi Deming, B.A. University of Cincinnati 1880, M.A. Bethany College (W. Va.) 1900	<i>New Haven, Conn.</i> Everitt st. Social Science
Sherwood Owen Dickerman, B.A. Yale University 1896	<i>New Haven, Conn.</i> Germany Classics
John Luther Dickson, B.D. Yale University 1908	<i>Madison, Conn.</i> Madison Philosophy
William Hughes Diller, B.A. Yale University 1907	<i>Cambridge, Mass.</i> A. English
George Stuart Dole, B.A. Yale University 1906, M.A. 1907	<i>Wilmington, Del.</i> 185 F. Economics
Louis Alexander Dole, B.A. Yale University 1906, M.A. 1907	<i>Wilmington, Del.</i> 185 F. Economics
Arthur Wayland Dox, B.S. University of Pennsylvania 1904, M.A. Columbia University 1905	<i>Storrs, Conn.</i> 708 W. D. Physiological Chemistry



Waldo Hilary Dunn, B.A. Yale University 1906	Middletown, O. English	A.
Edward Lewis Durfee, B.A. Yale University 1896	New Haven, Conn. 95 Cottage st. History	
Willard Higley Durham, B.A. Yale University 1904	Holland Patent, N. Y. Berlin, Germany English	
Eugene Norman Duty, B.A. Bethany College (W. Va.) 1908	Pittsburg, Pa. History	646 E. D.
Graham Edgar, B.S. Kentucky State College 1907	Lexington, Ky. Chemistry	205 F.
Marion Graham Elkins, B.S. Rhode Island Coll. of Agric. and Mech. Arts 1906	Amesbury, Mass. Botany	119 Park st.
William Dean Embree, B.A. Yale University 1902, LL B. 1905	New York City Romance Languages	A.
Fred Engelhardt, PH.B. Yale University 1908	Naugatuck, Conn. Physics	176 v-s.
Helen Evans, B.A. Mt. Holyoke College 1905	Derby, Conn. English	Derby
Lewis Charles Everard, B.A. Yale University 1908	New Orleans, La. English	Yale P. O.
Henry Pratt Fairchild, B.A. Doane College 1900	Crete, Nebr. Sociology	1233 Chapel st.
Jacob Plummer Feiser, B.A. Roanoke College 1904	Woodsboro, Md. Chemistry	687 W. D.
James Fulton Ferguson, B.A. Monmouth College 1903, B.A. Yale University 1906, M.A. 1907	Xenia, O. History	195 F.
Edna Louise Ferry, B.A. Mt. Holyoke College 1905	New Haven, Conn. 24 Edgewood av. Physiological Chemistry	
Morris Seide Fine, PH.B. Yale University 1908	New Haven, Conn. 46 Elliott st. Physiological Chemistry	
Nathaniel S. Fineberg, B.A. McGill University 1908	Montreal, Canada Economics	399 Elm st.
Theodore Adolph Fischer, B.D. Tufts College 1896	New Haven, Conn. 409 Edgewood av. Economics	
Everett Henry Fitch, B.A. Colgate University 1893, M.A. 1896	New Haven, Conn. 148 Whalley av. Latin	
William Ruthven Flint, B.A. Yale University 1898, M.A. 1906	New Haven, Conn. 121 Dwight st. Chemistry	
Alan Fox, B.A. Yale University 1903	New York City History	A.
Nathan Roscoe Francis, B.A. Yale University 1902, PH.B. 1908	Winchester, Tenn. Electrical Engineering	156 Grove st.

- Charles Franklin, B.A. *North Haven, Conn.* North Haven  
Central College 1894, M.A. 1895, Philosophy  
B.D. Vanderbilt University 1901,  
M.A. Yale University 1907
- Frank Nugent Freeman, B.A. *Ontario, Cal.* Leipsic, Germany  
Wesleyan University 1904, Psychology  
M.A. Yale University 1906, PH.D. 1908
- Andrew Chesley Furbush, B.A. *Georgetown, Conn.* Georgetown  
Yale University 1897, M.A. 1899, Philosophy  
B.D. Andover Theological Seminary 1900
- George Edward Gage, B.A. *Springfield, Mass.* 12 S. H.  
Clark University 1906, Bacteriology and Physiol. Chemistry  
M.A. Yale University 1907
- Herbert Draper Gallaudet, B.A. *Washington, D. C.* A.  
Yale University 1898, English  
B.D. Union Theological Seminary 1902
- Milton Washington Garrette, PH.B. *Hazleton, Pa.* A.  
Illinois Wesleyan College 1904, Pedagogy  
B.A. Yale University 1907
- Paul Smith Gates, PH.B. *West Haven, Conn.* West Haven  
Yale University 1908 Mechanical Engineering
- Ephraim Irwin Gilmore, PH.B. *Vincennes, Ind.* 694 W. D.  
Hamline University 1906 Biblical Literature
- Bradley Goodyear, B.A. *Buffalo, N. Y.* A.  
Yale University 1907 English
- Charles String Gray, B.A. *New Haven, Conn.* 75 Fourth st.  
Princeton University 1901, Philosophy  
B.D. Hartford Theological Seminary 1904
- Crawford Greene, B.A. *Nordhoff, Cal.* A.  
Yale University 1906 English
- John Elmer Groff, PH.B. *Strasburg, Pa.* Southport  
Franklin and Marshall College 1904 English
- Henry Hoadly Guernsey, B.D. *New Haven, Conn.* 602 E. D.  
Yale University 1905
- Herbert Hartley Guest, PH.B. *New Haven, Conn.* 164 Edgewood av.  
Yale University 1908 Chemistry
- George Frederick Gundelfinger, PH.B. *Sewickley, Pa.* 124 Wall st.  
Yale University 1906 Mathematics
- Marion Elvira Haines, B.A. *West Haven, Conn.* West Haven  
Vassar College 1905 English
- Charles Walter Hall, B.A. *Stockville, Nebr.* 87 Yale P. O.  
Doane College 1904, History  
B.A. Yale University 1907
- George Anthony Hall, B.A. *Boston, Mass.* 583 Howard av.  
Massachusetts Institute of Technology 1901 Biblical Literature

Alfred Ernest Hamill, B.A. Yale University 1905	Chicago, Ill.	A. English
Lee LaPlace Harding, B.S. Rhode Island College of Agric. and Mech. Arts 1906	Lyme, Conn.	78 Lake pl. Mathematics
Samuel Milby Harrington, B.A. Yale University 1906	New York City	-- A. English
William Henry Harris, B.D. Yale University 1907	Wardsville, Ont., Canada	644 E. D. Philosophy
Edwin Deeks Harvey, B.A. Yale University 1907	New Ferry, England	624 E. D. Sociology
Samuel Clarke Harvey, PH.B. Yale University 1907	Woodbury, Conn.	120 York st. Physiology
Wells Southworth Hastings, B.A. Yale University 1902	Englewood, N. J.	A. English
Yasujiro Hayakawa Oita Agricultural School 1899	Oita, Japan	332 York st. Economics
Fred Harvey Heath, B.S. New Hampshire Coll. Agr. and Mech. Arts 1905	Warner, N. H.	712 W. D. Chemistry
Harry Clifton Heaton, B.A. Yale University 1907	Waterbury, Conn.	Paris, France Romance Languages
Luther Bateman Henderson, B.S. New York University 1906	Newport, N. J.	655 W. D. Semitic Lang. and Bibl. Lit.
Nathaniel Herz, PH.B. Yale University 1908	New Haven, Conn.	118 Edwards st. Mining Engineering
Warren Fayette Hickernell, B.A. Ohio Northern University 1908	Ada, O.	98 York sq. Economics
Warren Witherell Hilditch, PH.B. Yale University 1905	Thompsonville, Conn.	706 W. D. Physiological Chemistry
Alfred Reed Hill, B.A. Yale University 1902	Cambridge, Mass.	A. English
John Warren Hill, B.A. University of New Brunswick 1905, M.A. 1907	Centre Hampton, N. B.	83 William st. Chemistry
Raymond Thompson Hill, B.A. Yale University 1904, M.A. 1905	Branford, Conn.	91 Dwight st. Romance Languages
Hou Wei Ho, PH.B. Yale University 1908	Tientsin, China	114 High st. Civil Engineering
John Dean Holm, B.S. Carleton College 1906, M.S. 1907	Stillwater, Minn.	114 High st. Mining Engineering
Davenport Hooker, B.A. Yale University 1908	New Haven, Conn.	83 C. Biology
May Myrtelle Hoppen, B.A. Woman's College of Baltimore 1897	New Haven, Conn.	358 Winthrop av. English
James Osborne Hopwood, B.S. University of Pennsylvania 1904	Philadelphia, Pa.	A. Botany and Chemistry

Charles Robert Housum, B.A. Yale University 1908	Cleveland, O. English A.
McKay Sylvander Howard, B.A. Dartmouth College 1907	West Lebanon, N. H. 293 York st. Chemistry and Mineralogy
William Rabon Howell, PH.B. Milligan College 1904, B.A. 1905, M.A. Yale University 1908	Wilson, N. C. 624 Yale P. O. Biblical Literature and Social Science
Francis Edwin Howland, B.A. Yale University 1904	Los Palacios, Cuba Classics A.
Yü Peng Hua, PH.B. Yale University 1908	Soochow, China 114 High st. Civil Engineering
Albert Wallace Hull, B.A. Yale University 1905	Torrington, Conn. 120 York st. Physics
Harold Bruce Hunting, B.A. Yale University 1901, B.D. 1904	New Haven, Conn. 41 Pleasant st. Biblical Literature
Harold Thomas Fuller Husted, B.A. Yale University 1908	Westfield, N. Y. 211 F. Classics
Harry Neal Hyde, B.A. Yale University 1895	Syracuse, N. Y. History A.
David Duryea Irwin, PH.B. Yale University 1908	Boston, Mass. 133 College st. Mining Engineering
William Johnson Jack, B.A. Yale University 1905	Indiana, Pa. History A.
Akira Izumi Keiogijiku University 1905	Tokyo, Japan 83 Mansfield st. Economics
Donald Lines Jacobus, B.A. Yale University 1908	New Haven, Conn. 26 Court st. English
Harold Burton Jamison, B.A. Yale University 1906	Gloversville, N. Y. History A.
Nejib Hovhanness Jebejian, B.A. Central Turkey College 1903, PH.B. Yale University 1908	Aintab, Turkey 945 Yale P. O. Civil Engineering
Stephen Paul Jefferson, B.D. Temple College 1904	Port Jefferson, N. Y. 381 WH. English
Gerard Edward Jensen, B.A. Yale University 1907	Norwich, Conn. 1076 Chapel st. English
George Metcalf Johnson, B.A. Yale University 1908	New Haven, Conn. 366 Whalley av. Spanish
Benjamin Franklin Jones, B.A. Yale University 1908	Nanticoke, Pa. 953 Yale P. O. History
Blanche Adaline Jones, B.A. Vassar College 1896	Pittsburg, Pa. Bridgeport English
John Lewis Jones, PH.B. Lafayette College 1905	Bangor, Pa. 314 George st. Mathematics

Alexander Corbin Judson, B.A. Pomona College 1907, M.A. Yale University 1908	<i>Bostonia, Cal.</i> English	631 E. D.
Margaret Judson, B.A. Vassar College 1903	<i>New York City</i> English	37 Howe st.
Mihran Tatios Kalaidjian, B.A. St. Paul's Institute, Tarsus, 1900, B.D. Yale University 1905, M.A. 1907	<i>Everek, Asia Minor</i> Philosophy	619 W. D.
Kannosuke Kawanaka, B.A. Tohoku Crakuin 1889, B.D. Pacific Theol. Seminary 1906, M.A. Columbia University 1907	<i>Toba, Japan</i> Semitic Languages	612 E. D.
William Oded Keirstead, B.A. Bates College 1906, B.A. Yale University 1907, M.A. 1908	<i>Cornhill, N. B.</i> Sociology	Montowese
Chauncey Clark Kennedy, B.A. Yale University 1904	<i>New York City</i> Biblical Literature	A.
Virginia Wadlow Kennedy, B.A. Woman's College of Baltimore 1896	<i>Baltimore, Md.</i> English	146 Norton st.
Ramdas Khan, L.A. Calcutta University 1903	<i>Calcutta, India</i> Philosophy	53 Prospect st.
Myra C. Kilborn, B.A. Wellesley College 1906	<i>New Haven, Conn.</i> English and Psychology	55 Dwight st.
Israel Simon Kleiner, PH.B. Yale University 1906	<i>New Haven, Conn.</i> Physiological Chemistry	39 Howe st.
Frank Joseph Klingberg, B.A. University of Kansas 1907, M.A. 1908	<i>Dillon, Kans.</i> History	22 Whalley av.
Clarence Moore Knox, PH.B. Yale University 1907	<i>Hartford, Conn.</i> Mechanical Engineering	685 W. D.
Gabriel B. Kramer, M.D. Baltimore Medical College 1907	<i>New Haven, Conn.</i> Bacteriology	342 George st.
Daniel Webster Kurtz, B.A. Juniata College 1905, B.D. Yale University 1908	<i>Lake, O.</i> Philosophy	Leipsic, Germany
Walter Edwards Lagerquist, B.A. Simpson College 1903, B.A. Yale University 1905, M.A. 1906	<i>Clarinda, Ia.</i> Economics	631 W. D.
John Kenyon Lamond, B.S. Rhode Island Coll. Agric. and Mech. Arts 1907, M.A. 1907, M.A. Yale University 1908	<i>Usquepaugh, R. I.</i> Mathematics	103 Park st.
Julius Ansgar Larsen, B.A. Yale University 1908	<i>New Haven, Conn.</i> Mining Engineering	418 B.
William Gilbert Lathrop, B.A. Brown University 1889, B.D. Yale University 1892, M.A. 1905	<i>Shelton, Conn.</i> Social Science	Shelton

Kenneth Scott Latourette, B.S. McMinnville College 1904, B.A. Yale University 1906, M.A. 1907	Oregon City, Oregon History	195 F.
Henry Wells Lawrence, Jr., B.A. Yale University 1906, M.A. 1907	White Plains, N. Y. History	125 Dwight st.
Henry Barrett Learned, B.A. Harvard University 1890, M.A. 1897	New Haven, Conn. History	50 Cold Spring st.
Ray Holme Legate, B.S. University of Arkansas 1905	Mena, Ark. Biblical Literature	299 Norton st.
Benjamin Ephraim Lewis, B.A. University of Kansas 1901, M.A. 1902	New Haven, Conn. Philosophy	1193 Chapel st.
Leonard Merritt Liddle, B.S. Cornell College 1906	Walker, Ia. Chemistry	162 S. C. L.
William Harding Longley, B.A. Acadia University 1901, B.A. Yale University 1907, M.A. 1908	Paradise, N. S. Biology	45 Park st.
Allen Loudon, PH.B. Yale University 1908	Norwalk, Conn. Mining Engineering	Norwalk
Herman Samuel Lovejoy, B.S. Dartmouth College 1894, M.A. Yale University 1908	Branford, Conn. Education	Branford
George Blakeman Lovell, B.A. Yale University 1901, M.A. 1903	New Haven, Conn. German	765 Whitney av.
Tasker Gantt Lowndes, B.A. Yale University 1907	Baltimore, Md. English	A.
Fred Elmore Lumley, B.A. Hiram College 1905, M.A. McMaster University 1907	St. Thomas, Ont., Canada Social Science	Northford
Frederick Bliss Luquiens, B.A. Yale University 1897, PH.D. 1905	New Haven, Conn. English	595 Orange st.
John Franklin Lyman, B.S. Massachusetts Agricultural College 1905	Amherst, Mass. Physiological Chemistry	706 W. D.
Tai Cheng Ma, PH.B. Yale University 1908	Tientsin, China Civil Engineering	35 High st.
Helen Flora McAfee, B.A. Smith College 1903	New Haven, Conn. English	94 York sq.
Donald McBride, B.A. Yale University 1906	Cleveland, O. English	A.
John Thomas McCants, B.A. Marion Institute 1903, M.A. University of Virginia 1906	Marion, Ala. English	687 W. D.
George Strather McClary, B.A. Bethany College (W. Va.) 1908	Rapidan, Va. History and Philosophy	646 E. D.
William Pitt McCune, B.A. Yale University 1906, M.A. 1907	Columbus, O. English	245 D.

David Ford McFarland, B.A. University of Kansas, 1900, M.A. 1901, M.S. Yale University 1903	Lawrence, Kans. 20 Whalley av. Chemistry	
Ernest Frank McGregor, B.A. University of Minnesota 1901, B.D. Yale University 1904, M.A. 1906	Clinton, Conn. Social Science	Clinton
John Daniel MacKay, B.A. Santa Clara College 1907	Saticoy, Cal.	415 B.
John McKenzie, B.A. University of Toronto 1903	Bear Line, Ont., Canada Biblical Literature	622 E. D.
Kenneth Gerard Mackenzie, PH.B. Yale University 1907	Westport, Conn. Chemistry	162 S. C. L.
Minor Sanford Macomber, B.S. Rhode Island Coll. of Agric. and Mech. Arts 1907	Hartford, Conn. Chemistry	78 Lake pl.
John Lee Maddox, B.A. Denison University 1904, B.D. Yale University 1908	Deering, N. D.	675 W. D.
Max Solomon Mandell	New Haven, Conn. English	101 Orange st.
Francis Hartman Markoe, Jr., B.A. Yale University 1906	New York City English	A.
Victor Edward Marriott, B.A. Beloit College 1905	Beloit, Wisc. Philosophy	643 E. D.
Harriette Parnal Marsh, PH.B. University of Chicago 1904	New Haven, Conn. History	89 Whalley av.
Harry Stratton Martin, B.A. Carleton College 1903	Spring Valley, Wisc. Philosophy	604 E. D.
Wilbert W. Martin, PH.B. Heidelberg University (Ohio) 1906	Tiffin, O. Latin	98 York sq.
Carlton Howard Maryott, B.A. Brown University 1904	Valley Falls, R. I. Chemistry	U. C.
John W. Mason, Jr., B.A. West Virginia University 1908	Fairmont, W. Va. English	119 Wall st.
Lawrence Mason, B.A. Yale University 1904	Winnetka, Ill. English	245 York st.
Alfred Arundel May, B.A. University of Wooster 1900, M.A. Yale University 1907	Wooster, O. English	713 W. D.
John Walter Maynard, B.A. Wesleyan University 1883, B.D. Drew Theological Seminary 1886	New Haven, Conn.	430 George st.
Clarence Whittlesey Mendell, B.A. Yale University 1904, M.A. 1905	Boston, Mass. Greek	86 C.
Joseph Cullen Messick, B.A. Ohio Wesleyan University 1902	Alliance, O. Latin	376 Elm st.

Elizabeth Merrill, B.A. University of Cincinnati 1900, M.A. 1905	Cincinnati, O.	75 Howe st. English
Edwin Cyrus Miller, B.A. National Normal University 1906, B.A. Yale University 1907	Baltimore, O.	565 P. Botany
Jesse Wright Miller, B.A. Yale University 1900	Arispe, Mex.	A. English
John Milton Miller, B.A. Yale University 1904	Bridgeport, Conn.	Washington, D. C. Physics
Stewart Lea Mims, B.A. Yale University 1904	Durham, N. C.	Paris, France History
Clifford Joseph Monahan, PH.B. Yale University 1907	New Haven, Conn.	136 Dwight st. Chemistry
Paul Moore, B.A. Yale University 1908	New York City	A. English
Howard Ansel Morton, B.A. Acadia University 1897, B.A. Harvard University 1899, B.D. Chicago Theological Seminary 1904	Essex, Conn.	Essex History
Victor Caryl Myers, B.A. Wesleyan University 1905, M.A. 1907	Buskirk Bridge, N. Y.	213 F. Physiological Chemistry
Robert Wilden Neeser, B.A. Yale University 1906	New York City	1076 Chapel st. History
Sherman Brown Neff, B.A. Yale University 1908	Ridgeway, Mo.	100 Howe st. English
Frank Hermon Nettleton, B.A. Yale University 1908	New Haven, Conn.	158 Blatchley av. Latin
John Strong Newberry, B.A. Yale University 1906	Cleveland, O.	A. English
Edward Theodore Newell, B.A. Yale University 1907	Kenosha, Wisc.	935 Yale P. O. Archæology
George Elwood Nichols, B.A. Yale University 1904	New Haven, Conn.	569 P. Botany
Levi Fatzinger Noble, B.A. Yale University 1905	Auburn, N. Y.	90 Wall st. Geology and Paleontology
Willis C. Noble, Jr., PH.B. Yale University 1906	Montclair, N. J.	148 Grove st. Mechanical Engineering
Irene Nye, B.A. Washburn College 1895	Eureka, Kans.	100 Howe st. Latin
Kenzaburo Okamoto Kelogijiku University 1907	Tokyo, Japan	144 Dwight st. English
Irving Sands Olds, B.A. Yale University 1907	Erie, Pa.	A. English



Edgar Hammond Olmstead, B.A. Tri-State Normal College 1893, B.D. Oberlin College 1899	Kensington, Conn.	Kensington Biblical Literature
Louis Kossuth Oppitz, B.A. Yale University 1906	Lebanon, O.	134 St. John st. Physics
Philip Scudder Ordway, B.A. Yale University 1908	Winchester, Mass.	210 F. Economics
Minott Augur Osborn, B.A. Yale University 1907	Ridgefield, Conn.	A. English
Charles Pomeroy Otis, B.A. Yale University 1907	Andover, Mass.	A. English
Theophilus Shickel Painter, B.A. Roanoke College 1908	Salem, Va.	140 W. Chemistry
Harry Victor Emanuel Palmblad, B.A. Columbia University 1907	Orange, Conn.	Orange German
Howard Earle Palmer, B.A. Yale University 1907	Branford, Conn.	Branford Chemistry
Walter Hobart Palmer, B.A. Yale University 1905	Branford, Conn.	Branford Classics
Willis Nathaniel Parker, B.A. Yale University 1891, M.A. Univ. of Pa. 1897, PH.D. 1898	Philadelphia, Pa.	A. Education
Leroy Clifton Partch, B.A. Hillsdale College 1905, B.D. Oberlin College 1907	Pierpont, O.	83 Mechanic st. Biblical Literature
Julia Bayles Paton, B.A. Smith College 1900	New Haven, Conn.	74 Lake pl. Physiology
Christopher Sheller Peacock, B.A. Monmouth College 1907	Monmouth, Ill.	1233 Chapel st. Economics
Elliott William Peck, B.A. Worcester Polytechnic Institute 1894	Stratford, Conn.	Stratford History
Nicholas Elias Peleff, B.A. Yale University 1907	Macedonia, Turkey	402 Crown st. Economics
Claude Clair Perkins, B.A. University of Minnesota 1907	Pine Island, Minn.	376 Elm st. Chemistry
Hervey Bates Perrin, B.A. Yale University 1907	Indianapolis, Ind.	A. English
Clarence Curtiss Perry, PH.B. Yale University 1904	New Britain, Conn.	121 Maple st. Physics
Walter Hart Perry, B.A. Yale University 1901	Oxford, Conn.	111 Dwight st. History and Political Science
Walter Petersen, B.A. Grand Island College 1900, M.A. University of Nebraska 1902 PH.D. Yale University 1908	Grand Island, Nebr.	312 Elm st. Linguistics and Sanskrit

Freeman Lewis Pettit, B.A. Cotner University 1901	Bethany, Nebr.	1161 Chapel st.
Clyde Pharr, B.A. Yale University 1906	Ridgeway, Texas	997 Yale P. O. Classics
Vergil Vivian Phelps, PH.B. University of Chicago 1901, PH.M. 1903, B.D. 1907	Bay City, Mich.	651 E. D. History
Chester Arthur Phillips, B.A. Central College 1904, Yale University 1908	Huntington, Ind.	276 Elm st. Economics
Frederick Williams Pierce, PH.B. Baker University 1906	Baldwin, Kans.	373 Crown st. German
Joseph Ezekiel Pogue, Jr., B.A. University of North Carolina 1906, M.S. 1907	Raleigh, N. C.	1305 Chapel st. Petrography
Katharine Mordaunt Quint, B.A. Wellesley College 1890, M.A. Dartmouth College 1896	Boston, Mass.	90 Whalley av. Classics
Joseph Chappell Rayworth, B.A. Acadia University 1903, B.A. Yale University 1906, M.A. 1907	Amherst, N. S.	3 B. M. H. Mathematics
Amy Louise Reed, B.A. Vassar College 1892	New Rochelle, N. Y.	500 Whalley av. English
Chester Albert Reeds, B.S. University of Oklahoma 1905, M.S. Yale University 1907	Norman, Okla.	A. Paleontology
Ray John Reigeluth, B.A. Yale University 1908	Carbondale, Pa.	Carbondale, Pa. Economics
Edward Hartman Reisner, B.A. Yale University 1908	McConnellsburg, Pa.	214 Yale P. O. Philosophy
John Pierrepont Rice, B.A. Yale University 1900, M.A. 1901	Northampton, Mass.	179 V-S. Romance Languages
Henry Martyn Robert, Jr., B.A. Yale University 1896	New York City	A. Mathematics
Edwin Jay Roberts, B.S. New Hampshire Coll. Agr. and Mech. Arts 1906	Laconia, N. H.	712 W. D. Chemistry
Francis Clapp Robertson, B.A. Yale University 1906	New York City	A. English
Thomas Markoe Robertson, B.A. Yale University 1901	New York City	A. English
Charles Prescot Robinson, B.A. Yale University 1900	New York City	A. English and History
William Goodwin Robinson, B.A. Yale University 1906	Williamsport, Pa.	A. English
William Cumming Rose, B.S. Davidson College 1907	Laurinburg, N. C.	1305 Chapel st. Physiological Chemistry

Harry Rosenbaum, PH.B. Yale University 1903	New Haven, Conn.	68 Park st. Civil Engineering
Joseph Rosenbaum, PH.B. Yale University 1907	New Haven, Conn.	68 Park st. Mathematics and Civil Engineering
Samuel Barnell Rosenbaum, PH.B. Yale University 1907	New Haven, Conn.	68 Park st. Civil Engineering
John Rossiter, B.A. Yale University 1882	Guilford, Conn.	A. Psychology
Norman Nienstedt Rupp, B.A. Yale University 1904	Saginaw, Mich.	A. English
Edith Sutherland Russell, B.A. Vassar College 1899	West Haven, Conn.	West Haven Biblical Literature
William James Ryland, B.A. Trinity College 1908	Amsterdam, N. Y.	124 Park st. History
Thomas William Salt, M.A. McLemoresville College 1894, B.D. Grant University 1888, M.A. 1889, PH.D. 1890	Cincinnati, O.	27 Ridge st. Semitic Languages
James Cox Sanderson, B.A. Yale University 1907	New Haven, Conn.	733 Yale P. O. Physics
George Paul Torrence Sargent, B.A. Yale University 1905	New York City	A. History
Thomas Edmund Savage, B.A. Iowa Wesleyan University 1895, B.S. State University of Iowa 1897, M.S. 1898	Urbana, Ill.	A. Paleontology
Charalambos George Savidis, B.A. Anatolia College (Turkey) 1900, PH.B. Yale University 1906	Samsoun, Asia Minor	29 Lake pl. Civil Engineering
Marvin McRae Scarbrough, B.A. University of Oregon 1902, M.A. Yale University 1905, M.A. 1907	Eugene, Oregon	120 York st. Physiology
Howard Sheafer Schall, PH.B. Yale University 1907	New Haven, Conn.	167 Livingston st. Civil Engineering
Samuel Ray Scholes, B.A. Ripon College 1905	Green Lake, Wisc.	S. C. L. Chemistry
John Richie Schultz, B.A. Christian University 1905, M.A. 1906	Canton, Mo.	17 Pearl st. English
William Eben Schultz, B.A. Christian University 1906, M.A. 1907	Canton, Mo.	17 Pearl st. English
Walter Scott, B.A. Valparaiso College 1902	Senecaville, O.	23 Lynwood pl. Chemistry
Samuel Scoville, Jr., B.A. Yale University 1893, LL.B. New York Law School 1895	Philadelphia, Pa.	A. Icelandic
Sarah Dean Seaman, B.A. Elmira College 1908	St. Johnsville, N. Y.	130 Howe st. English

- Howard Arnold Seckerson, B.A. *Middletown, Conn.* Middletown  
Wesleyan University 1907, English  
M.A. Yale University 1908
- Nobuji Sekido, B.A. *Tokyo, Japan* 586 P.  
Waseda University 1907, English  
M.A. Yale University 1908
- William Edward Selin, B.A. *Cynthiana, Ky.* 671 W. D.  
Yale University 1898, M.A. 1900 English
- Ernest Wilson Sheldon, B.A. *Cornwall, Ont., Canada* 569 P.  
McGill University 1904, Mathematics  
B.A. Yale University 1907
- Seth Shepard, Jr., B.A. *Dallas, Texas* A.  
Yale University 1905 Jurisprudence
- George Clarence Sherwood, B.S. *Ewing, Ky.* A.  
National Normal University 1899, English  
B.A. Yale University 1907
- William Ernest Andrew Slaght, B.A. *New Haven, Conn.* 980 Whalley av.  
University of Toronto 1897, Philosophy  
B.D. Yale University 1902, M.A. 1907
- Clarence M. Smail, B.A. *Perrysville, O.* 646 E. D.  
Bethany College (W. Va.) 1908 History
- Charles Augustus Smith, B.A. *New Haven, Conn.* 122 Dwight st.  
University of Kansas 1908 History
- Henry DeWitt Smith, PH.B. *New London, Conn.* 379 Temple st.  
Yale University 1908 Mining Engineering
- Mary Winslow Smyth, B.L. *New Haven, Conn.* 328 Temple st.  
Smith College 1895, M.A. 1905 English
- George Mark Sneath, B.A. *New Haven, Conn.* 32 Perkins st.
- Alfred Tenney Spaulding, B.A. *Buffalo, N. Y.* A.  
Yale University 1908 English
- Willard Learoyd Sperry, B.A. *Fall River, Mass.* Fall River, Mass.  
Olivet College 1903, Philosophy  
B.A. Oxford University 1907
- Henry Winchester Starkweather, PH.B. *New Haven, Conn.* 693 Elm st.  
Yale University 1906 Mechanical Engineering
- Harris Elwood Starr, PH.B. *Mt. Carmel, Conn.* Mt. Carmel  
Brown University 1897, Biblical Literature  
M.A. Harvard University 1899
- Benjamin Franklin Stelter, B.A. *Delphos, Kans.* 22 Whalley av.  
University of Kansas 1905, M.A. 1908 English
- Neil Everett Stevens, B.A. *Auburn, Me.* 152 Temple st.  
Bates College 1908 Biology

Frederick Azel Sumner, B.A. Oberlin College 1891, B.D. Hartford Theological Seminary 1894	Milford, Conn. Biblical Literature	Milford
Nizzo Suruda, B.L. Bethany College (W. Va.) 1906	Kishu, Japan English	1169 Chapel st.
Mary Davies Swartz, B.L. Denison University 1901, B.S. Columbia University 1906	Wooster, O. Physiol. Chemistry and Physiology	74 Lake pl.
Ludwig Emil Swenson, B.A. Bethany College (Kans.) 1905	Lindsborg, Kans. German	276 Elm st.
George Gifford Symes, PH.B. Yale University 1905	New York City Sanitary Engineering	77 Elm st.
Arthur Irving Taft, B.A. Yale University 1905	Melrose, Mass. English	58 Grove st.
Eduardo Tagliatela, B.D. University of Geneva 1901	Rome, Italy Philosophy	275 Lombard st.
James Spencer Taintor, B.A. Yale University 1901	Hartford, Conn. History	A.
Senjiro Takagi, B.A. Yale University 1907, M.A. 1908	Yokohama, Japan Social Science	652 E. D.
Shiro Tanaka Doshisha College 1893	Gumma-Ken, Japan Philosophy and Sociology	606 E. D.
Thomas Jarvis Taylor, B.S. Wesleyan University 1908	New Haven, Conn. French	32 Foote st.
Thomas Smith Taylor, B.A. Yale University 1906	Peoli, O. . Physics	542 P.
Charles Dunning Thompson, PH.B. Yale University 1908	Honesdale, Pa. Mining Engineering	133 College st.
Clifford Griffith Thompson, B.A. Young Harris College 1903, M.A. Yale University 1908	Bogart, Ga. Philosophy	647 E. D.
Edwin Ward Tillotson, Jr., B.A. Yale University 1906	Farmington, Conn. Chemistry	846 Yale P. O.
Frederick Tilney, B.A. Yale University 1897, M.D. Long Island Coll. Hosp. 1903	Brooklyn, N. Y. English	A.
Charles Augustus Tournier, B.A. Yale University 1908	Auburn, N. Y. Mathematics	214 Dixwell av.
Ralph Hermon Tukey, B.A. Bates College 1898, B.A. Harvard Univ. 1900, M.A. 1901, PH.D. 1906	South Windham, Me. Greek	618 E. D.
Thomas Allen Tully, B.A. Yale University 1907	New Haven, Conn. Classics	361 George st.
Edwin Hotchkiss Tuttle, B.A. Yale University 1901	New Haven, Conn. Romance Languages	217 Mansfield st.

- William Henry Twenhofel, B.A. *Kenton, Ky.* 122 Derby av.  
National Normal University 1903, Geology  
B.A. Yale University 1908
- Charles Eugene Underwood, B.A. *Indianapolis, Ind.* 623 Yale P. O.  
Butler College 1903, M.A. 1904 Biblical Literature
- Laurence Vail Updegraff, B.A. *New Haven, Conn.* 35 High st.  
Yale University 1908 English
- Frederick Theodore vanBeuren, Jr., B.A. *New York City* A.  
Yale University 1898, English  
M.D. Columbia University 1902
- Albert William VanBuren, B.A. *New Haven, Conn.* 9 Trumbull st.  
Yale University 1900 Classics
- Von Ogden Vogt, B.A. *New York City* 649 E. D.  
Beloit College 1901 Biblical Literature
- Martin Luther Wachtel, B.S. *Myersville, Md.* 747 Yale P. O.  
Pennsylvania College 1908 Physics
- Mary Shore Walker, B.A. *Columbia, Mo.* 13 Park st.  
University of Missouri 1903, M.A. 1904 Mathematics
- Roosevelt Pruyn Walker, B.A. *Macon, Ga.* 79 Howe st.  
Mercer University 1905, English  
M.A. Yale University 1908
- James Harold Wallis, B.A. *Dubuque, Ia.* A.  
Yale University 1906 English
- Henry Freeman Walradt, B.A. *New Haven, Conn.* 417 B.  
Yale University 1907, M.A. 1908 Economics
- Elmer Ruel Walton, B.A. *Columbus, Miss.* 694 W. D.  
University of Mississippi 1905 Philosophy
- Hiram Lee Ward, B.A. *Unadilla, N. Y.* 205 F.  
Yale University 1906 Chemistry
- Ella Pardee Warner, PH.B. *New Haven, Conn.* 914 Dixwell av.  
Wesleyan University 1906, M.S. 1907 English
- John Ryan Washburn, B.A. *Trenton, N. J.* A.  
Yale University 1905 French
- Cornelius Bushnell Watson, PH.B. *Parkersburg, W. Va.* 133 College st.  
Yale University 1908 Mining Engineering
- Lewis Hill Weed, B.A. *Baltimore, Md.*  
Yale University 1908 Chemistry
- Kenneth Brakeley Welles, B.A. *Scranton, Pa.* DW.  
Yale University 1908 Psychology
- Arthur Harold Weston, B.A. *Mt. Vernon, Me.* 209 F.  
Yale University 1908 Latin
- Edward Colpitts Weyman, B.A. *Apohaqui, N. B.* 189 F.  
University of New Brunswick 1902, Economics  
B.A. Harvard University 1903,  
M.A. Yale University 1905

Frank Elbert Wheelock, B.A. Acadia University 1905, B.A. Yale University 1907	Lawrencetown, N. S. 120 York st. Physics	
* John Alan White, B.A. Yale University 1907	Walton, N. Y. Mathematics	
Raymond Henry White, B.A. Yale University 1905, M.A. 1906	New Haven, Conn. Greek	411 B.
Philip Barrows Whitehead, B.A. Beloit College 1906, M.A. Yale University 1908	Janesville, Wisc. History	641 E. D.
Edwin Blake Whiting, PH.B. Yale University 1907	New Haven, Conn. Mining and Geology	Kent
William Sheldon Whittlesey, B.A. Yale University 1907	New Haven, Conn. English	135 Wall st.
James Willard Williams, B.A. Yale University 1908	Glastonbury, Conn. Psychology and Chinese Institutions	2 DW.
Robert Day Williams, B.S. Pomona College 1903, M.A. Yale University 1907	Redlands, Cal. Psychology	589 Yale P. O.
Mark Skinner Willing, B.A. Yale University 1902	Chicago, Ill. English	A.
Harold Edmund Wilson, B.A. Wesleyan University 1904, M.A. 1907	New Haven, Conn. 801 Orange st.	
Harold Moffat Wilson, B.A. Yale University 1898	New York City Church History	A.
Howard Benjamin Wilson, PH.B. Yale University 1908	Norwalk, Conn. 561 Washington av., West Haven Mechanical Engineering	
Wallace Alvin Wilson, B.A. Yale University 1905	New Haven, Conn. 346 Lighthouse rd. Mathematics	
Truman Everett Winter, B.A. Hiram College 1908	Berkeley, Cal. Philosophy	74 Whalley av.
Ernest Lionel Wismer, B.A. Yale University 1908	New Haven, Conn. Philosophy	139 Greene st.
Milton Frederick Wittler, B.A. Pomona College 1907	Seattle, Wash. Philosophy	631 E. D.
Roger Henry Wolcott, B.A. Yale University 1905	Denver, Colo. English	A.
Alexander James Wood, B.A. Yale University 1906	Winsted, Conn. Chemistry	Winsted
William Hamilton Wood, B.A. University of Toronto 1901, B.D. Yale University 1905	Iroquois, Ont., Canada. Biblical Literature	645 E. D.

\* Died November 30, 1908.

Thomas Goddard Wright, B.A. Yale University 1907, M.A. 1908	New Haven, Conn. English	209 F.
William Josiah Wright, B.S. Acadia University 1907, B.A. Yale University 1908	Bear River, N. S. Geology	120 York st.
Jushun Yamasaki Tokyo College 1902	Hiroshima, Japan English	1169 Chapel st.
Isaburo Yano Toboku Gakuin 1898, B.D. Princeton Theological Seminary 1907, M.A. Princeton University 1908	Sendai, Japan	614 E. D.
Bayard Daniel York, B.A. Yale University 1907	Andover, Mass. Mathematics	A.
Helen Louise Young, B.A. Cornell University 1900	East Palmyra, N. Y. History	133 Howe st.

#### TEACHERS NOT HOLDING DEGREES ADMITTED TO GRADUATE COURSES

Eleanor Gertrude Cooper	North Haven, Conn.	North Haven History
Mary Elizabeth Hedrick	Washington, D. C.	65 Grové st. Chemistry
Elizabeth H. Hughes	New Haven, Conn.	111 Chapel st. History
Mary Anne Maher	New Haven, Conn.	283 Sherman av. History
Elizabeth Ammen Wysor	Pulaski, Va.	100 Howe st. History

GRADUATE SCHOOL, 385



# ACADEMICAL DEPARTMENT

## (YALE COLLEGE)

### SENIOR CLASS, 1909

Edward Paul Alker	<i>New York City</i>	67 v.
Willis Lloyd Allen	<i>Shirley, Mass.</i>	A.
Charles Boothe Alling	<i>Montclair, N. J.</i>	3 v.
Clarence Hayden Allis	<i>Derby, Conn.</i>	53 v.
Herbert Burr Alvord	<i>Gloversville, N. Y.</i>	184 F.
Paul Shipman Andrews	<i>Syracuse, N. Y.</i>	428 FW.
Paul Thompson Arnold	<i>Ridgway, Pa.</i>	354 WH.
Frank August Assmann	<i>East Orange, N. J.</i>	382 WH.
Louis Girard Audette	<i>Jamestown, N. Y.</i>	379 WH.
Wheaton Augur	<i>Chicago, Ill.</i>	69 v.
Andrew Meech Avery	<i>Norwich, Conn.</i>	378 WH.
William Rider Babcock	<i>Brookline, Mass.</i>	A.
Earle Wilson Bachman	<i>New Haven, Conn.</i>	660 W. D.
Leonard Bacon	<i>Peacedale, R. I.</i>	342 WH.
John Frederick Baker	<i>Willimantic, Conn.</i>	8 v.
John Kendrick Bangs, Jr.	<i>New York City</i>	7 v.
Robert Barlow	<i>Corry, Pa.</i>	24 v.
William Raymond Barss, B.S.	<i>New Germany, Nova Scotia</i>	120 York st.
Acadia University 1907		
Harold Stanley Bates	<i>Mt. Vernon, N. Y.</i>	35 v.
Edgar Farrar Bateson	<i>New York City</i>	428 FW.
Claude Gillette Beardslee	<i>Hartford, Conn.</i>	84 C.
Charles Carrington Beeman	<i>Fairfield, Conn.</i>	375 WH.
Henry Augustin Beers, Jr.	<i>New Haven, Conn.</i>	342 WH.
Frederick Wilder Bellamy	<i>Brooklyn, N. Y.</i>	60 v.
Herbert Hawthorne Benedict	<i>North Abington, Mass.</i>	79 C.
Paul Howie Benedict	<i>Utica, N. Y.</i>	2 v.
Richard Herbert Bennett	<i>Fall River, Mass.</i>	354 WH.
Alfred Alexander Biddle	<i>Philadelphia, Pa.</i>	32 v.
John Kingsley Birge	<i>Bristol, Conn.</i>	17 v.
Chauncey Buckley Blair	<i>Chicago, Ill.</i>	67 v.
Francis Malbone Blodget	<i>East Greenwich, R. I.</i>	66 v.
William Whiting Borden	<i>Chicago, Ill.</i>	380 WH.
Bennet Bronson	<i>Waterbury, Conn.</i>	429 FW.
Harold Brooks	<i>Tenafly, N. J.</i>	56 v.
Harold Wilson Brooks	<i>New York City</i>	62 v.
Carroll Teller Brown	<i>Denver, Colo.</i>	47 v.
Harvey Hollister Bundy	<i>Grand Rapids, Mich.</i>	37 v.

John Sellers Bunting, B.A. Simmons College 1908	Gordon, Texas	78 C.
Robert Boyd Burch	Cincinnati, O.	30 V.
Edgar Bartow Burgess	Garden City, L. I., N. Y.	63 V.
Samuel Parkes Burnam	Richmond, Ky.	49 V.
Edward Neufville Tailer Burnett	New York City	21 V.
Rufus Bradford Burnham	Norwich, Conn.	25 V.
Francis Peabody Butler	Chicago, Ill.	460 FW.
Gerald Morton Butler	Evanston, Ill.	4 V.
Charles Soutter Campbell	Essex Fells, N. J.	379 WH.
George Edward Cantine	Albany, N. Y.	387 B.
Charles Bronson Carpenter	New York City	18 V.
Sydney Buchanan Carragan	Brooklyn, N. Y.	64 V.
Eliot Avery Carter	West Newton, Mass.	444 FW.
Frank Thompson Case	Hartford, Conn.	2 V.
Gordon Case	Peconic, N. Y.	41 V.
Frank Andrew Cellar	Sewickley, Pa.	42 V.
Harold Edward Chittenden	East River, Conn.	17 V.
Ponson Chu	Shanghai, China	33 V.
Avery Artison Clark	Middlebury, Conn.	5 V.
Carolus Thomas Clark	Westfield, N. J.	2 V.
DeWitt Scoville Clark, Jr.	Salem, Mass.	3 V.
Ralph Hodge Clark	Derby, Conn.	53 V.
Chauncey Haseltine Clarke	Springfield, Mo.	112 W.
Frederick Hull Cogswell, Jr.	New Haven, Conn.	79 C.
Harry Frederick Cole	Newburyport, Mass.	343 WH.
Frank Burnett Condon	Unionville, Conn.	443 FW.
Aims Chamberlain Coney	Orange, N. J.	236 D.
Gilbert Maurice Congdon	Providence, R. I.	461 FW.
Paul Howard McGregor Converse	Rochester, N. Y.	428 FW.
Chester Jules Copmann	Yokohama, Japan	30 V.
Clay Crawford	Fort Thomas, Ky.	52 V.
Eugene Judson Curtis	Clinton, Ia.	272 D.
Trevor Arnold Cushman	Winchester, Mass.	372 WH.
Walter Dallas	Waterbury, Conn.	50 V.
Allen Sturges Davenport	Yonkers, N. Y.	15 V.
Douglas Treat Davidson	Warren, Pa.	42 V.
Charles Hollister Davis	Manchester, Conn.	84 C.
Howard Carter Davis	Elizabeth, N. J.	442 FW.
Arthur Leete Davison	Thompsonville, Conn.	88 C.
Lyall Dean	New York City	20 V.
Samuel Force Dennis	Louisville, Ky.	336 WH.
Julian French Devereux	Cleveland, O.	460 FW.
William Andrew DeWitt	Wilton, Conn.	203 F.
Allen Robert Dodd	Upper Montclair, N. J.	25 V.

Geoffrey Dodge	<i>New York City</i>	435 FW.
Gayer Gardner Dominick	<i>New York City</i>	62 v.
William Minton Donnelly	<i>Detroit, Mich.</i>	7 v.
Wadsworth Doster, B.A.	<i>Bethlehem, Pa.</i>	422 B.
Moravian College 1908		
Malcolm Taylor Dougherty	<i>Brooklyn, N. Y.</i>	57 v.
Arthur Gotzian Driscoll	<i>St. Paul, Minn.</i>	66 v.
Thomas Perkins Durell	<i>Somerville, Mass.</i>	64 v.
Jackson Annan Dykman	<i>Brooklyn, N. Y.</i>	235 D.
Thomas Collyer Eastman	<i>New York City</i>	439 FW.
Elford Welles Eddy	<i>New Britain, Conn.</i>	61 v.
Harold Ransom Edwards	<i>Granby, Conn.</i>	27 v.
James Connelly Edwards, Jr.	<i>Russellville, Ky.</i>	58 v.
Douglas Fitch Guilford Eliot	<i>Irvington-on-Hudson, N. Y.</i>	11 v.
Stanley Egbert Ellis	<i>St. Albans, Vt.</i>	346 WH.
James Murdock Ethridge, Jr.	<i>Rome, N. Y.</i>	19 v.
Albert Jeffreys Evans	<i>Pittsburg, Pa.</i>	279 Crown st.
John Conner Failing	<i>Portland, Oregon</i>	1 v.
Robert Fairbanks	<i>Indianapolis, Ind.</i>	24 Howe st.
Albert Day Farwell	<i>Lake Forest, Ill.</i>	460 FW.
John Favill	<i>Chicago, Ill.</i>	4 v.
Daniel Higgins Fenton	<i>Holyoke, Mass.</i>	234 D.
Henry Theodore Fleitmann	<i>New York City</i>	436 FW.
Arthur Olney Friel	<i>Manchester, N. H.</i>	360 WH.
Peter Francis Fuchs	<i>Brooklyn, N. Y.</i>	70 C.
Frederick Lamont Gates	<i>Montclair, N. J.</i>	340 WH.
Francis Dwight Gilbert	<i>Grand Rapids, Mich.</i>	21 v.
Percy Macaulay Gilbert	<i>Brooklyn, N. Y.</i>	24 v.
Bryant Burwell Glenny, Jr.	<i>Buffalo, N. Y.</i>	37 v.
William Brown Glover	<i>Fairfield, Conn.</i>	26 v.
Leon Godchaux	<i>New Orleans, La.</i>	440 FW.
Charles Vanderveer Graham	<i>Brooklyn, N. Y.</i>	101 W.
Clarence Flack Graham	<i>Albany, N. Y.</i>	400 B.
James Benton Grant, Jr.	<i>Denver, Colo.</i>	442 FW.
Laurence Wilcoxson Gregory	<i>Norwalk, Conn.</i>	365 WH.
Robert Noah Griswold	<i>Hartford, Conn.</i>	137 W.
William Cleveland Haley	<i>Brooklyn, N. Y.</i>	70 C.
Francis Bacon Hamlin	<i>Washington, D. C.</i>	5 v.
Henry Dennis Hammond, PH.B.	<i>Nashville, Tenn.</i>	408 B.
Yale University 1908		
Miles Carrington Hannah	<i>Lake Forest, Ill.</i>	445 FW.
Jesse McMillan Harding	<i>Omaha, Nebr.</i>	438 FW.
Ralph Volney Harlow	<i>Southbridge, Mass.</i>	434 FW.
Robert Otis Hayward	<i>Bronxville, N. Y.</i>	272 D.

Charles Devon Heald	Lebanon, O.	27 Sylvan av.
Patrick Joseph Healey	Waterbury, Conn.	89 C.
Birch Helms	Pottsville, Pa.	9 V.
Horace Barnes Hewlett	New Haven, Conn.	44 V.
Paul Hilsdale	Sauk Center, Minn.	424 FW.
Melville Espe Hitchcock	Ansonia, Conn.	153 L.
Bernhard Eliot Hoffman	New Haven, Conn.	107 Dixwell av.
Stanley Westcott Holmes	Saratoga Springs, N. Y.	39 V.
Thomas Carrington Hood	Chester, Conn.	27 V.
Joseph Kilbourne Hooker	Hartford, Conn.	444 FW.
Richard Schiller Hosford	Moline, Ill.	272 D.
Charles Wadsworth Howard	Brooklyn, N. Y.	439 FW.
James Merriam Howard	Montclair, N. J.	451 FW.
Henry Almy Howe	South Orange, N. J.	19 V.
Burrell Richardson Huff	Greensburg, Pa.	29 V.
Harris Monroe Humason	New Britain, Conn.	61 V.
Wilson McClaughry Hume	Ahmednagar, India	57 V.
John Aloysius Hurley, Jr.	Bridgeport, Conn.	343 WH.
Jefferson Gatherford Ish, Jr.	Little Rock, Ark.	658 W. D.
Edward Francis Jefferson	South Dennis, N. J.	381 WH.
Nelson Holland Jewett	Buffalo, N. Y.	34 V.
Allan Macfarlan Johnson	Boston, Mass.	115 W.
Elias Alfred Johnson	Chicago, Ill.	332 WH.
Robert Coit Johnson	Norwich, Conn.	371 WH.
Charles Chesebrough Jones	New Hartford, Conn.	55 V.
Joseph Paul Kaufman	Norwich, Conn.	419 B.
Samuel Jerman Keator, Jr.	Rock Island, Ill.	451 FW.
Hudson Kelley	Chicago, Ill.	331 WH.
Courtland Kelsey	East Orange, N. J.	236 D.
Stephen Tomlinson Kelsey	East Orange, N. J.	45 V.
Leonard Kennedy	Brooklyn, N. Y.	441 FW.
William Abraham Kincaid, Jr.	Galveston, Texas	15 V.
Alexander Comstock Kirk	Chicago, Ill.	105 W.
Allan Farrand Kitchel	East Liverpool, O.	334 WH.
Allen Trafford Klots	Huntington, N. Y.	336 WH.
Roland Werner Klupfel	New York City	126 W.
Daniel Lathrop Lawton	New York City	59 V.
Dickson Hammond Leavens	Norwich, Conn.	43 V.
Robert Stell Lemmon	Englewood, N. J.	54 V.
Robert Louis Levy	New York City	427 FW.
Franklin Drake Lightner	St. Paul, Minn.	10 V.
Milton Charles Lightner	St. Paul, Minn.	11 V.
Henry Lippitt	Providence, R. I.	32 V.
Henry Hopkins Livingston	Catskill Station, N. Y.	427 FW.

Alfred Lee Loomis	<i>New York City</i>	445 FW.
James Taber Loree	<i>New York City</i>	28 v.
John W. Lowrance	<i>Atlanta, Ga.</i>	40 v.
Grant Street Macartney	<i>St. Paul, Minn.</i>	20 v.
James Lukens McConaughy	<i>Mount Hermon, Mass.</i>	346 WH.
Charles Ramsey McCulloch	<i>Gloversville, N. Y.</i>	412 B.
Hubert McDonnell	<i>New York City</i>	437 FW.
Benjamin Harrison McKee	<i>New York City</i>	59 v.
Wilber McKee	<i>Lakeville, Conn.</i>	51 v.
Charles Patrick McKiernan	<i>Union City, Conn.</i>	139 W.
Arthur Perkins McWilliams	<i>Norwich, Conn.</i>	41 v.
Robert Mallory, Jr.	<i>Brooklyn, N. Y.</i>	461 FW.
Irvin Edward Margulies	<i>Brooklyn, N. Y.</i>	73 C.
Simon Seelig Marks	<i>Meridian, Miss.</i>	113 W.
Frederic Ogden Mason	<i>Chicago, Ill.</i>	39 v.
Leon Renfroe Meadows, PH.B.	<i>Haynesville, La.</i>	142 L.
Baylor University 1908		
Harry Meixell, Jr.	<i>Reading, Pa.</i>	15 v.
Jacob Stanley Mendenhall, B.S.	<i>Plano, Texas</i>	142 L.
Baylor University 1908		
Rufus Monroe Meroney	<i>Chicago, Ill.</i>	16 Gill st.
Clinton Merrick	<i>Evanston, Ill.</i>	5 v.
Harold Talmadge Messenger	<i>Winsted, Conn.</i>	13 v.
Jeremiah Milbank, 2d	<i>New York City</i>	34 v.
Clark Goodell Mitchell	<i>Denver, Colo.</i>	6 v.
Edgar James Moch	<i>Cincinnati, O.</i>	110 W.
Frederick Augustus Morrell, Jr.	<i>Putnam, Conn.</i>	48 v.
Edward Kendall Morse	<i>Carbondale, Pa.</i>	371 WH.
Robert Moses	<i>New York City</i>	332 WH.
Arthur Parsons Mullins	<i>Salem, O.</i>	61 v.
Karl Eugene Murchey	<i>Detroit, Mich.</i>	339 WH.
Francis Wisner Murray, Jr.	<i>New York City</i>	445 FW.
Ralph Emerson Myers	<i>Buskirk Bridge, N. Y.</i>	213 F.
Silas Mason Newton, PH.B.	<i>Waco, Texas</i>	142 L.
Baylor University 1908		
Edward McDonell O'Brien	<i>Plattsburgh, N. Y.</i>	16 v.
Charles Milton Olcott	<i>Montclair, N. J.</i>	438 FW.
Henry Noyes Otis	<i>Andover, Mass.</i>	14 v.
Lawrence Benjamin Pagter	<i>New Haven, Conn.</i>	30 Baldwin st.
Allan Douglas Parker	<i>Lowell, Mass.</i>	441 FW.
Leonard Bacon Parks	<i>Cleveland, O.</i>	372 WH.
Maxwell Oswald Parry	<i>Indianapolis, Ind.</i>	6 v.
Judson Aspinwall Parsons	<i>Troy, Pa.</i>	331 WH.
Herbert Payne	<i>Menlo Park, Cal.</i>	235 D.

Clarence Appleton Peirce	<i>Methuen, Mass.</i>	443 FW.
Reginald Carman MacKnight Peirce	<i>Montclair, N. J.</i>	60 v.
John Bates Perrin	<i>Indianapolis, Ind.</i>	455 FW.
Norman Francis Peters	<i>Newsider, Pa.</i>	395 B.
Sidney Marcellus Phelan, Jr.	<i>St. Louis, Mo.</i>	10 v.
Maurice Raymond Plumb	<i>Northfield, Minn.</i>	114 High st.
Theodore Pomeroy	<i>Chicago, Ill.</i>	6 v.
Morgan Porter	<i>Pittsburg, Pa.</i>	423 FW.
Lawrence Tyler Post	<i>St. Louis, Mo.</i>	12 v.
Paul Peter Princell	<i>Chicago, Ill.</i>	37 Lynwood pl.
Edward Otis Proctor	<i>Wakefield, Mass.</i>	346 WH.
George Robert Quiggin, B.A. Hiram College 1908	<i>Southport, England</i>	724 W. D.
Stuart Craig Rand	<i>Newton Center, Mass.</i>	12 v.
Charles Henry Raymond, 2d	<i>Morristown, N. J.</i>	7 v.
Franklyn Thomas Raymond	<i>New York City</i>	436 FW.
Henry Lewis Read	<i>Brooklyn, N. Y.</i>	338 WH.
Paul Whedon Redfield	<i>Madison, Conn.</i>	17 v.
Donald Louis Reynolds	<i>Toledo, O.</i>	65 v.
Harold Cady Reynolds	<i>Danbury, Conn.</i>	416 B.
Cleaveland Jocelyn Rice	<i>New Haven, Conn.</i>	40 v.
Welles Kennon Rice	<i>New York City</i>	61 v.
Henry Brush Richardson	<i>Derby, Conn.</i>	184 F.
Elisha Francis Riggs, Jr.	<i>Washington, D. C.</i>	29 v.
William Payne Roberts	<i>Brooklyn, N. Y.</i>	57 v.
Paul Goodwin Robison	<i>Curwensville, Pa.</i>	27 v.
James Harvey Rogers, M.A. Univ. of South Carolina, 1907.	<i>Society Hill, S. C.</i>	373 Crown st.
Robert Selden Rose	<i>Geneva, N. Y.</i>	32 v.
Arthur Ward Ruff	<i>Schenectady, N. Y.</i>	430 FW.
Stephen Willis Ryder	<i>New York City</i>	434 FW.
Benjamin Blethen Sanderson	<i>Portland, Me.</i>	24 v.
Peter Benjamin Sarason	<i>New Haven, Conn.</i>	467 FW.
Theodore Schulze	<i>St. Paul, Minn.</i>	68 v.
Raymond Joseph Schweizer	<i>New York City</i>	69 v.
Edwin Lewis Scofield, Jr.	<i>Stamford, Conn.</i>	1 v.
Frank Jay Scribner	<i>Wallingford, Vt.</i>	25 v.
Mortimer Ashmead Seabury	<i>Wellesley Hills, Mass.</i>	32 v.
Clarence Eugene Secor, Jr.	<i>Yonkers, N. Y.</i>	425 FW.
Charles Eugene Selover, Jr.	<i>Auburn, N. Y.</i>	337 WH.
George Herman Seybold	<i>Mansfield, O.</i>	125 W.
William Sharp	<i>Cranford, N. J.</i>	46 v.
Arthur MacCartney Shepard	<i>Nome, Alaska</i>	43 v.
Stanley Stokes Shepard	<i>Syracuse, N. Y.</i>	50 v.

Eustace Morrow Sheppard	<i>Pittsburg, Pa.</i>	343 WH.
Charles Delanzon Simmons	<i>Norwalk, O.</i>	54 V.
Howard Benjamin Slider	<i>Loag, Pa.</i>	80 C.
Walter Pearson Smart	<i>Allegheny, Pa.</i>	354 WH.
Ralph Smillie	<i>New York City</i>	429 FW.
Emery Holland Smith	<i>New York City</i>	49 V.
Huntington Smith, Jr.	<i>St. Louis, Mo.</i>	440 FW.
Louis Earle Smith, B.A.	<i>Chambersburg, Pa.</i>	415 B.
Pennsylvania College 1908		
Herbert Mason Southworth	<i>Wakefield, Mass.</i>	64 V.
Joel Andrew Sperry, 2d	<i>New Haven, Conn.</i>	173 Ellsworth av.
Roland Adelbert Spitzer	<i>Toledo, O.</i>	65 V.
William Spoerle	<i>Brooklyn, N. Y.</i>	16 V.
Alfred Springer, Jr.	<i>Norwood, O.</i>	423 FW.
John Minor Stetson	<i>New Haven, Conn.</i>	414 B.
Sanford Delwin Stockton, Jr.	<i>Poughkeepsie, N. Y.</i>	382 WH.
Harold Phelps Stokes	<i>New York City</i>	426 FW.
Horace Winston Stokes	<i>New York City</i>	11 V.
Morton Charnleigh Stone	<i>New Haven, Conn.</i>	375 WH.
Boetius Henry Sullivan	<i>Chicago, Ill.</i>	23 V.
James Platt Sweeney	<i>Naugatuck, Conn.</i>	339 WH.
Raymond Fuller Swett	<i>Medina, N. Y.</i>	63 V.
William Howard Taft	<i>New York City</i>	31 V.
Nelson Case Taintor	<i>Hartford, Conn.</i>	334 WH.
Harrison Wood Talcott	<i>South Bend, Ind.</i>	199 F.
Robert James Tearse	<i>Winona, Minn.</i>	9 V.
Mortimer Clark Terrill	<i>Ansonia, Conn.</i>	44 V.
Raymond Thatcher	<i>Pueblo, Colo.</i>	47 V.
Carl Hammond Thurston	<i>Worcester, Mass.</i>	347 WH.
Francis Berger Trudeau	<i>Saranac Lake, N. Y.</i>	426 FW.
Ye-tsung Tsur	<i>Shanghai, China</i>	689 W. D.
Walker Moore VanRiper	<i>St. Louis, Mo.</i>	46 V.
Malcolm Burt Vilas	<i>Cleveland, O.</i>	380 WH.
Charles Carter Walbridge	<i>Philadelphia, Pa.</i>	437 FW.
Melvin Harvey Walker, Jr.	<i>Westboro, Mass.</i>	335 WH.
Raymond Lowrey Walkley	<i>Southington, Conn.</i>	71 C.
Floyd Wallace	<i>Wallingford, Conn.</i>	337 WH.
Chester Alan Wardwell	<i>Haverhill, Mass.</i>	58 V.
Francis Melzar Watrous	<i>New Haven, Conn.</i>	334 WH.
Aubrey Richardson Watzek	<i>Davenport, Ia.</i>	443 FW.
William Seward Webb, Jr.	<i>Shelburne Farms, Vt.</i>	31 V.
Morton Weeks	<i>Brookline, Mass.</i>	115 W.
William Corcoran Welling	<i>Hartford, Conn.</i>	8 V.
John Benjamin Westcott	<i>Waregan, Conn.</i>	71 C.

Thorne Lake Wheeler	<i>Chatham, N. Y.</i>	13 V.
Inness Whitaker	<i>New York City</i>	51 V.
Edward Luther White	<i>Waterbury, Conn.</i>	28 V.
Jacob Farrand Williams	<i>Detroit, Mich.</i>	36 V.
Rowland Gregory Wright	<i>Hancock, Mich.</i>	9 V
George Glendining Wyant	<i>Stamford, Conn.</i>	347 WH.
Perry Swearingen Young	<i>Abilene, Texas</i>	78 C.
Ralph Snyder Zimmerman	<i>Somerset, Pa.</i>	241 D.

SENIOR CLASS, 301



## JUNIOR CLASS, 1910

Roy Montgomery Andrew	<i>East Arlington, Vt.</i>	35 High st.
Charles Dudley Armstrong	<i>Pittsburg, Pa.</i>	348 WH.
Roswell Mears Austin	<i>Highgate Center, Vt.</i>	247 D.
Henry Gerhardt Baars, Jr.	<i>Pensacola, Fla.</i>	453 FW.
Frank Trowbridge Bailey	<i>Montclair, N. J.</i>	111 W.
Paul Duane Bailey	<i>Middletown, Conn.</i>	127 W.
Arthur Edward Baker	<i>Bridgeport, Conn.</i>	357 WH.
Herbert Howard Baker	<i>Toledo, O.</i>	263 D.
Howard Clifton Baker	<i>Providence, R. I.</i>	123 W.
John Edwin Barber	<i>Toledo, O.</i>	352 WH.
Lawrence Luther Barber	<i>Danielson, Conn.</i>	258 D.
Edward Shippen Barnes	<i>New York City</i>	• 143 L.
Fuller Forbes Barnes	<i>Bristol, Conn.</i>	462 FW.
Walter Barnum	<i>Mamaroneck, N. Y.</i>	376 WH.
Lewin Wethered Barroll	<i>Chestertown, Md.</i>	394 B.
Stanhope Bayne-Jones	<i>New Orleans, La.</i>	261 D.
Harold Weymouth Bean	<i>Framingham, Mass.</i>	459 FW.
Victor Augustus Beede	<i>New Haven, Conn.</i>	350 WH.
Morris Harry Behrman	<i>Worcester, Mass.</i>	218 F.
David Bellamy	<i>New York City</i>	246 D.
Hildreth Benner	<i>Tarrytown, N. Y.</i>	270 D.
Charles Raymond Bentley	<i>Rochester, N. Y.</i>	349 WH.
Percy Wells Bidwell	<i>So. Manchester, Conn.</i>	258 D.
Leonard Cutter Bigelow	<i>Framingham, Mass.</i>	450 FW.
Henry Payne Bingham	<i>Cleveland, O.</i>	269 D.
Gould Shelton Bissell	<i>Shelton, Conn.</i>	425 FW.
Joseph Bloom Blackburn	<i>Pittsburg, Pa.</i>	348 WH.
George Bleistein, Jr.	<i>Buffalo, N. Y.</i>	104 W.
Byron George Bliss	<i>Warrensburg, Mo.</i>	432 FW.
John deKoven Bowen	<i>Chicago, Ill.</i>	448 FW.
Thomas Wilson Bowers	<i>Chicago, Ill.</i>	119 W.
Frank Silver Brainard	<i>New York City</i>	374 WH.
Harold Brewster Bretz	<i>Brooklyn, N. Y.</i>	383 B.
John Northmore Brigham	<i>Glencoe, Ill.</i>	353 WH.
Theodore Henry Brown	<i>Darien, Conn.</i>	361 WH.
George Lamb Buist	<i>Charleston, S. C.</i>	265 D.
Raymond Marcy Burnham	<i>Hartford, Conn.</i>	12 V.
Howard Cordis Carter	<i>Norfolk, Conn.</i>	465 FW.
George Wells Cheney	<i>So. Manchester, Conn.</i>	390 B.
Neal Townley Childs	<i>New York City</i>	335 WH.
Douglas Chisholm	<i>Cleveland, O.</i>	424 FW.
Lawson Clary	<i>Bellbuckle, Tenn.</i>	204 F.

Stephen Merrell Clement, Jr.	<i>Buffalo, N. Y.</i>	369 WH.
Henry Clarence Cloud	<i>Winnebago, Nebr.</i>	469 FW.
Kent Sarver Clow	<i>Chicago, Ill.</i>	260 D.
Arthur Pierce Coates	<i>Upper Montclair, N. J.</i>	433 FW.
Clayton Tilton Cochran	<i>Bridgeport, Conn.</i>	240 D.
Samuel Michael Cohen	<i>Hartford, Conn.</i>	467 FW.
Brevard Mays Connor	<i>Dallas, Texas</i>	390 B.
Harry Coombe	<i>Cincinnati, O.</i>	243 D.
Carroll Trowbridge Cooney	<i>Brooklyn, N. Y.</i>	98 W.
Frank Marion Coppock, Jr.	<i>Cincinnati, O.</i>	271 D.
Edward Harris Coy	<i>New Haven, Conn.</i>	242 D.
Reuben Bernard Crispell	<i>Kingston, N. Y.</i>	267 D.
Edward Ely Curtis	<i>New Haven, Conn.</i>	663 W. D.
Rosewell Mansing Curtis	<i>Lenox, Mass.</i>	465 FW.
Henry Tomlinson Curtiss	<i>Greenwich, Conn.</i>	368 WH.
David Lewis Daggett	<i>New Haven, Conn.</i>	237 D.
Howard Upson Darling	<i>Wichita, Kans.</i>	239 D.
Lyman Strong Darling	<i>Wichita, Kans.</i>	239 D.
Edward John Davin	<i>New York City</i>	470 FW.
Warren Gilbert Davis	<i>Worcester, Mass.</i>	450 FW.
Wilbur Fisk Davis	<i>Meriden, Conn.</i>	264 D.
Thompson Dean	<i>Katonah, N. Y.</i>	132 W.
Albert DeSilver	<i>Brooklyn, N. Y.</i>	262 D.
Donald Ryder Dickey	<i>Dubuque, Ia.</i>	432 FW.
Warren Wallace Diehl	<i>Springfield, O.</i>	240 D.
Walter Herman Dietz	<i>Holyoke, Mass.</i>	234 D.
Sidney Philip Dine	<i>Cincinnati, O.</i>	391 B.
Frederick Morris Drew, Jr.	<i>Ansonia, Conn.</i>	155 Elm st.
Louis Goethe Dreyfus, Jr.	<i>Santa Barbara, Cal.</i>	463 FW.
Arthur Howard Drisko	<i>Roxbury, Mass.</i>	349 WH.
William Young Duncan	<i>Jersey City, N. J.</i>	466 FW.
John Gilbert Dunn	<i>Schenectady, N. Y.</i>	430 FW.
Howard Alfred Dye	<i>Gloversville, N. Y.</i>	188 F.
Lawrence Waldo Eames	<i>Providence, R. I.</i>	94 W.
David Jay Ely	<i>New York City</i>	106 W.
Charles Leverett English	<i>New Haven, Conn.</i>	422 B.
John Meiggs Ewen, Jr.	<i>Chicago, Ill.</i>	260 D.
Wilson Lear Eyre	<i>New Rochelle, N. Y.</i>	106 W.
Samuel Henry Fancher, Jr.	<i>Walton, N. Y.</i>	452 FW.
Arthur Robertson Fergusson	<i>Washington, D. C.</i>	358 WH.
Gilbert Bishop Ferris	<i>Westchester, N. Y.</i>	377 WH.
George Baldwin Field	<i>Newton Center, Mass.</i>	123 W.
William Kountz Fitch	<i>Rockford, Ill.</i>	268 D.
William Hasty Flint	<i>Larchmont Manor, N. Y.</i>	452 FW.

James Harold Flye	Winter Park, Fla.	413 B.
Collin Ford	Toledo, O.	122 W.
John Willard Ford	Youngstown, O.	96 W.
Edwin Louis Fouts	Stamford, Conn.	98 W.
Denton Fowler, 3d	Haverstraw, N. Y.	272 D.
Charles Pascal Franchot	Olean, N. Y.	348 WH.
Robert Dudley French	New Haven, Conn.	355 WH.
George Gregg Fuller	Rochester, N. Y.	268 D.
Albert Sydney Gaffney	West Newton, Pa.	116 Whalley av.
Perrin Comstock Galpin	New Haven, Conn.	135 W.
Walter Emery Gard	South Orange, N. J.	36 V.
Stanley Lincoln Gedney, Jr.	Maplewood, N. J.	249 D.
Nathan Henry Gellert	Colchester, Conn.	1193 Chapel st.
Nathan Flower George	Danbury, Conn.	377 WH.
Arthur Benson Gilbert	Mt. Kisco, N. Y.	264 D.
Charles Mark Gill	St. Louis, Mo.	13 Park st.
Charles Carroll Glover, Jr.	Washington, D. C.	333 WH.
Charles Allen Goddard	Salisbury, Conn.	266 D.
William Arthur Goebel	Phoenix, Ariz.	271 D.
Gerald Blenkiron Gould	New York City	350 WH.
Tappan Gregory	Chicago, Ill.	432 FW.
Millen Griffith	Ross, Cal.	270 D.
Milton Wright Griggs	St. Paul, Minn.	95 W.
Lyle Gillis Hall	Ridgway, Pa.	95 W.
Rufus Bartlett Hall, Jr.	Cincinnati, O.	250 D.
Charles Glover Hammond	New Haven, Conn.	254 D.
George Leslie Harrison	Fort Monroe, Va.	464 FW.
Albert McClellan Haskell	Wakefield, Nebr.	374 WH.
Richard Kingsley Hawes	Fall River, Mass.	376 WH.
Wellington Burt Hay	London, England	259 D.
Michael Conran Hayes	Waterbury, Conn.	53 Lake pl.
Roger Russ Hayes	Buffalo, N. Y.	458 FW.
Robert Young Hayne	San Mateo, Cal.	129 W.
Walter Frank Hayward, Jr.	Brooklyn, N. Y.	404 B.
James Drayton Heard	Pittsburg, Pa.	103 W.
Morgan Hebard	Philadelphia, Pa.	102 W.
Henry Glen Heedy	Youngstown, O.	102 W.
John Heron	Pittsburg, Pa.	345 WH.
Thomas Hewes	Hartford, Conn.	238 D.
Arthur Sturgess Hildebrand	Hartford, Conn.	266 D.
Richard Dwight Hillis	Brooklyn, N. Y.	373 WH.
Edward Benjamin Hinckley	Hinckley, Me.	152 Temple st.
Henry Booth Hitchcock	Jamestown, N. Y.	410 B.
Chalmers Holbrook	New York City	266 D.

George Lyon Hollett	<i>Chicago, Ill.</i>	372 WH.
Henry Gilbert Holt	<i>Grand Rapids, Mich.</i>	368 WH.
Sherman Abbey Hooker	<i>Fredonia, N. Y.</i>	454 FW.
Stephen VanCulen Hopkins	<i>Brooklyn, N. Y.</i>	383 B.
Fred Augustus Hotchkiss	<i>Millerton, N. Y.</i>	120 W.
Harold Jacob Hotton	<i>Franklinville, N. Y.</i>	248 D.
Elton Hoyt, 2d	<i>Cleveland, O.</i>	369 WH.
Eugene Hall Humphrey	<i>Winchester, Conn.</i>	647 E. D.
George Albert Hurd	<i>Savannah, Ga.</i>	56 Grove st.
Lewis Orrin Hutchinson	<i>Bristol, Conn.</i>	188 F.
George Gordon Hyde	<i>New York City</i>	255 D.
Grant Milnor Hyde	<i>Janesville, Wisc.</i>	415 B.
Edward Ingraham	<i>Bristol, Conn.</i>	462 FW.
John James Jansen, Jr.	<i>Albany, N. Y.</i>	370 WH.
Charles Frederic Jefferson	<i>New York City</i>	76 C.
Francis Bates Jennings	<i>Brooklyn, N. Y.</i>	470 FW.
Richard Jente	<i>New Haven, Conn.</i>	86 Henry st.
Oliver Seymour Jewell	<i>New Hartford, Conn.</i>	55 V.
Carlton Clarke Jewett	<i>Buffalo, N. Y.</i>	262 D.
James Ford Johnson, Jr.	<i>Dobbs Ferry, N. Y.</i>	85 C.
Elliot Penrose Jones	<i>West Chester, Pa.</i>	378 WH.
Frank Edward Jones	<i>Unionville, Conn.</i>	16 V.
Frank Williams Jones, Jr.	<i>New Hartford, Conn.</i>	349 WH.
Arthur Thomas Keefe	<i>New London, Conn.</i>	109 W.
Stephen Edwards Keeler, Jr.	<i>New Canaan, Conn.</i>	469 FW.
Elmer Davenport Keith	<i>Brooklyn, N. Y.</i>	393 B.
Arthur Godwyn King	<i>Norfolk, Va.</i>	120 W.
Lyndon Marrs King	<i>Minneapolis, Minn.</i>	433 FW.
Robert Burr King	<i>Hartford, Conn.</i>	355 WH.
Max David Kirjassoff	<i>Waterbury, Conn.</i>	409 B.
George Dimmick Kittredge	<i>Fishkill-on-Hudson, N. Y.</i>	438 FW.
Augustus Knight	<i>Evanston, Ill.</i>	456 FW.
Harry Jacob Kugel	<i>New Haven, Conn.</i>	108 Oak st.
Frederick Clinton Lake, Jr.	<i>St. Louis, Mo.</i>	457 FW.
Judson Stuart Landon	<i>Schenectady, N. Y.</i>	241 D.
John Lane	<i>Brooklyn, N. Y.</i>	131 W.
Dana Turley Leavenworth	<i>Hotchkissville, Conn.</i>	248 D.
Louis Heitler Lehman	<i>Pueblo, Colo.</i>	174 L.
Frank Coe Lewis	<i>New Britain, Conn.</i>	389 B.
Benjamin Lionel Liberman	<i>St. Joseph, Mo.</i>	403 B.
Walter Seth Logan, Jr.	<i>Washington, Conn.</i>	242 D.
Carl Albert Lohmann	<i>Akron, O.</i>	104 W.
Yin-Ch'u Ma	<i>Shanshiang, Chehkiang, China</i>	66 Whalley av.
Richard Holloway Mabbatt, Jr.	<i>Chicago, Ill.</i>	353 WH.

Earl Clarence MacArthur	<i>McCollom's, N. Y.</i>	159 Elm st.
Sydney Clement McCall	<i>New York City</i>	435 FW.
John Joseph MacCarthy	<i>North Brookfield, Mass.</i>	465 FW.
Ralph Richard Macartney	<i>St. Paul, Minn.</i>	243 D.
Henry Darius McCord	<i>New York City</i>	459 FW.
Nelson Whitaker McCormick	<i>Cleveland, O.</i>	94 W.
Roy Leighton McFarland	<i>St. Joseph, Ky.</i>	122 Dwight st.
James Harold Machette	<i>Scranton, Pa.</i>	398 B.
Alexander Lawton Mackall	<i>Baltimore, Md.</i>	358 WH.
William Bradford MacLane	<i>New Haven, Conn.</i>	33 Howe st.
Donald Bentley McLaury	<i>Chicago, Ill.</i>	397 B.
John Harper Mallory	<i>Pittsburg, Pa.</i>	455 FW.
John Joseph Mann	<i>Buffalo, N. Y.</i>	118 W.
Thomas Linder Marshall	<i>Charlestown, Ill.</i>	246 D.
Ira Mack Mason	<i>Pittsburg, Pa.</i>	658 W. D.
Thomas Means	<i>New Haven, Conn.</i>	356 Humphrey st.
Edgar Menderson	<i>Cincinnati, O.</i>	447 FW.
Buckingham Parsons Merriman	<i>Waterbury, Conn.</i>	237 D.
Paul Gurley Merrow	<i>Hartford, Conn.</i>	45 V.
John Trumbull Metcalf	<i>New Haven, Conn.</i>	119 College st.
Buckingham Miller	<i>Newton Highlands, Mass.</i>	341 WH.
Meade Minnigerode	<i>Paris, France</i>	250 D.
Louis David Mińsk	<i>Colchester, Conn.</i>	1193 Chapel st.
Erwin Albert Morse	<i>New York City</i>	100 W.
Oliver Cromwell Morse, Jr.	<i>Port Washington, N. Y.</i>	258 D.
Daniel Mungall, Jr.	<i>South Hadley Falls, Mass.</i>	341 WH.
Frederick James Murphy	<i>Westboro, Mass.</i>	247 D.
Arthur Murray, Jr.	<i>Auburn, N. Y.</i>	466 FW.
Daniel Herman Myers	<i>Albany, N. Y.</i>	370 WH.
Arthur Theodore Nabstedt	<i>Davenport, Ia.</i>	398 B.
Frank Thayer Nelson	<i>Detroit, Mich.</i>	253 D.
Earle Stakemiller Nesbitt	<i>Pawnee City, Nebr.</i>	1169 Chapel st.
George Wilmarth Nickel	<i>Menlo Park, Cal.</i>	114 W.
Lawrence Harper Norton	<i>Cleveland, O.</i>	352 WH.
Garnett Morgan Noyes	<i>Warren, Pa.</i>	99 W.
George Otto Oberhelman	<i>Norwood, O.</i>	218 F.
Harold Obernauer	<i>Pittsburg, Pa.</i>	134 W.
Howard Vincent O'Brien	<i>Chicago, Ill.</i>	261 D.
Francis Howard Olmsted	<i>Lakeville, Conn.</i>	439 FW.
Francis Ward Paine	<i>Boston, Mass.</i>	267 D.
Rene Mead Pardee	<i>Orange, N. J.</i>	249 D.
George Fish Parsons, Jr.	<i>New York City</i>	449 FW.
William Henry Parsons, Jr.	<i>New York City</i>	238 D.
Ward Edgerly Pearson	<i>Great Barrington, Mass.</i>	35 V.

Julius Christian Peter	<i>Seymour, Ind.</i>	447 FW.
Stephen Holladay Philbin	<i>New York City</i>	345 WH.
Ralph Harlan Pierce	<i>Brockton, Mass.</i>	254 D.
Joseph Curtis Platt	<i>Scranton, Pa.</i>	369 WH.
Henry Kerr Plumb	<i>Brooklyn, N. Y.</i>	91 C.
George Stewart Pomeroy, Jr.	<i>Wernersville, Pa.</i>	454 FW.
John Gooden Poore	<i>Willow Grove, Del.</i>	35 High st.
Marsh Klock Powers	<i>Cleveland, O.</i>	356 WH.
Warren Cone Pratt	<i>Hartford, Conn.</i>	347 WH.
Charles Baird Price	<i>Louisville, Ky.</i>	119 W.
Randolph Raynolds	<i>New Haven Conn.</i>	32 V.
William Howard Read	<i>Brooklyn, N. Y.</i>	338 WH.
Harold Bishop Reid	<i>Walden, N. Y.</i>	470 FW.
Graham Llewellyn Reynolds	<i>Pasadena, Cal.</i>	127 W.
George Adams Richardson	<i>Auburn, N. Y.</i>	103 W.
Truman Post Riddle	<i>St. Louis, Mo.</i>	352 WH.
Thomas Lawrason Riggs	<i>Washington, D. C.</i>	345 WH.
Edward Constant Roberts	<i>Hartford, Conn.</i>	100 W.
Joseph Stone Roberts	<i>Salem, Mass.</i>	449 FW.
Philip Roberts	<i>Hartford, Conn.</i>	253 D.
Arthur Frederic Robinson	<i>Norwich, Conn.</i>	74 C.
William Silliman Rogers	<i>Buffalo, N. Y.</i>	373 WH.
John Michael Romadka	<i>Milwaukee, Wisc.</i>	249 D.
Reginald Roome	<i>New York City</i>	238 D.
Frank Guiles Roth	<i>Harrisburg, Pa.</i>	248 D.
Guy Meredith Russell	<i>New Haven, Conn.</i>	256 D.
George Henry Sanderson	<i>Moosup, Conn.</i>	407 B.
Arthur Sewall	<i>Bath, Me.</i>	446 FW.
Edward Palmer Seymour	<i>Highland Park, Ill.</i>	244 D.
Roger Sherman	<i>Rye, N. Y.</i>	252 D.
William Hawthorne Shields, Jr.	<i>Norwich, Conn.</i>	401 B.
Michael Nathaniel Slotnick	<i>Holyoke, Mass.</i>	467 FW.
David Parker Smith	<i>Meriden, Conn.</i>	223 F.
Douglas Tracy Smith	<i>Hartford, Conn.</i>	356 WH.
Henry Montague Smith, Jr.	<i>Morristown, N. J.</i>	135 W.
Edward Douglas Snyder	<i>Rockford, Ill.</i>	469 FW.
James Brookes Spencer	<i>St. Louis, Mo.</i>	344 WH.
Leonard Lovejoy Stanley	<i>Great Barrington, Mass.</i>	420 B.
Charles Messinger Steele	<i>Brooklyn, N. Y.</i>	458 FW.
Robert Bernhard Stern	<i>Irvington-on-Hudson, N. Y.</i>	386 B.
Neil Campbell Stevens	<i>Morristown, N. J.</i>	385 B.
Philip Moen Stimson	<i>New York City</i>	130 W.
William Stricker, Jr.	<i>Brooklyn, N. Y.</i>	47 Lake pl.
Robert Alphonso Taft	<i>Washington, D. C.</i>	269 D.

Chung-hsüan T'ang	<i>Tientsin, China</i>	142 Dwight st.
Waldo Elliot Tillinghast	<i>Vernon, Conn.</i>	407 B.
Alexander Berthold Timm	<i>New Haven, Conn.</i>	254 D.
John Campbell Townsend	<i>New York City</i>	464 FW.
William Allen Underhill	<i>Bath, N. Y.</i>	267 D.
Ralph Palmer Uptegrove	<i>Brooklyn, N. Y.</i>	132 W.
John Edwin Urquhart, Jr.	<i>Ashfield, Mass.</i>	96 W.
Arthur Van Brunt	<i>New York City</i>	255 D.
Adrian Van Sinderen	<i>Brooklyn, N. Y.</i>	269 D.
Charles Edmund Van Vleck, Jr.	<i>Montclair, N. J.</i>	68 V.
Frederick Glade Wacker	<i>Chicago, Ill.</i>	244 D.
Joseph Bradford Wardwell	<i>Stamford, Conn.</i>	334 WH.
Ernest Ross Warren	<i>Killingly, Conn.</i>	407 B.
Harvey Tracy Warren	<i>Bridgeport, Conn.</i>	353 WH.
Edwin Morey Waterbury	<i>Corning, N. Y.</i>	256 D.
Henry Crouch Webb	<i>Dover, Del.</i>	384 B.
Arthur Weil	<i>New Haven, Conn.</i>	352 Orange st.
William Bakewell Wharton	<i>Pittsburg, Pa.</i>	251 D.
Ralph Dean Whipple	<i>Bridgeport, Conn.</i>	Bridgeport
Francis Joseph Whitcomb	<i>Bridgeport, Conn.</i>	367 WH.
Robert Stevens Whitlock	<i>Naugatuck, Conn.</i>	226 Crown st.
Edwin A Whitman	<i>Moravia, N. Y.</i>	216 F.
James Moro Whittaker	<i>Cincinnati, O.</i>	23 V.
Howard DeForest Widger	<i>Cortland, N. Y.</i>	216 F.
Earl Trumbull Williams	<i>Brooklyn, N. Y.</i>	344 WH.
Wayland Wells Williams	<i>New Haven, Conn.</i>	252 D.
George Charles Wilson	<i>Delhi, N. Y.</i>	216 F.
Ruthven Adriance Wodell	<i>Poughkeepsie, N. Y.</i>	85 C.
William Herbert Wood	<i>Syracuse, N. Y.</i>	466 FW.
Walter Emerson Woodford, Jr.	<i>New York City</i>	398 B.
Edward Farrand Wright	<i>Detroit, Mich.</i>	405 B.
Sheldon Smith Yates	<i>Brooklyn, N. Y.</i>	265 D.
Louis Bradstreet Zacher	<i>Branford, Conn.</i>	367 WH.

## SOPHOMORE CLASS, 1911

Cary Abbott	<i>Cheyenne, Wyo.</i>	8 College st.
Harold Duncan Aikman	<i>Terre Haute, Ind.</i>	260 Crown st.
John Alden	<i>Rochester, N. Y.</i>	22 College st.
Philip Thompson Allen	<i>Montrose, Pa.</i>	150 L.
Robert Bruce Anderson	<i>Salem, O.</i>	8 College st.
Thomas Joseph Aubrey	<i>Norwich, Conn.</i>	186 F.
Frederick Rowe Avery	<i>Westbrook, Conn.</i>	90 C.
Benjamin Selden Bacon	<i>New Haven, Conn.</i>	260 Crown st.
Paul Bradford Badger	<i>Winchester, Mass.</i>	22 College st.
James Lenox Banks, Jr.	<i>New York City</i>	27 College st.
Thomas Sloane Barnes	<i>New York City</i>	259 D.
Joseph Wickliff Beach	<i>Bangor, Me.</i>	254 Crown st.
Samuel Birdsey Beardsley	<i>Bridgeport, Conn.</i>	197 F.
Wilfred Attwood Beardsley	<i>Waterbury, Conn.</i>	165 L.
Thomas Beer	<i>Yonkers, N. Y.</i>	22 College st.
Edward Berman	<i>Bayonne, N. J.</i>	789 Yale P. O.
William Darius Bishop, Jr.	<i>Bridgeport, Conn.</i>	818 Yale P. O.
Edward Seymour Blair	<i>Chicago, Ill.</i>	22 College st.
Charles Edgar Blake	<i>Hartford, Conn.</i>	182 L.
Samuel Sikes Board	<i>Montclair, N. J.</i>	166 L.
Malcolm Bogue	<i>San Francisco, Cal.</i>	138 W.
Robert Bowman	<i>Chicago, Ill.</i>	251 Crown st.
Robert Franklin Bradley	<i>New Haven, Conn.</i>	70 Whalley av.
Samuel Henry Braude	<i>Rockville, Conn.</i>	156 L.
Floyd Clinton Brewer	<i>Arcadia, La.</i>	256 D.
Ericsson Bushnell Broadbent	<i>New Haven, Conn.</i>	911 Dixwell av.
Ulysses Hayden Brockway, Jr.	<i>Hartford, Conn.</i>	251 Crown st.
Wilbur Birdsey Bronson	<i>Winchester, Conn.</i>	11 College st.
George Percy Brown	<i>Barre, Mass.</i>	179 L.
Stanley Ernest Brown	<i>Darien, Conn.</i>	180 L.
Walter Leroy Brown	<i>Erwin, Tenn.</i>	120 W.
George Burgess	<i>Garden City, L. I., N. Y.</i>	260 Crown st.
Ellsworth Bushnell	<i>Minneapolis, Minn.</i>	167 L.
Beth Vincent Butterfield	<i>Wilmington, Vt.</i>	167 L.
Thomas Elton Canfield	<i>Thomaston, Conn.</i>	118 W.
Robert John Carpenter	<i>Winchester, Mass.</i>	163 L.
Frank Joseph Carrig	<i>Lima, O.</i>	174 L.
Thomas Walker Carter	<i>Lexington, Mass.</i>	251 Crown st.
John Rendall Chandler	<i>Auburndale, Mass.</i>	151 L.
David Everett Chantler	<i>Pittsburg, Pa.</i>	117 W.
Harold Benjamin Chapman	<i>Hartford, Conn.</i>	152 L.



Charles Edward Clark	Orange, Conn.	961 Yale P. O.
Edward Goddard Clark	Westfield, N. J.	162 L.
Tyler Clark	Buffalo, N. Y.	8 College st.
Robert Clement	Rutland, Vt.	103 W.
Mather Cleveland	Denver, Colo.	8 College st.
Robert Coyne Clifford	St. Louis, Mo.	251 D.
Samuel Coan	New Haven, Conn.	1009 Yale P. O.
Albert Presby Colburn	Sharon, Mass.	170 L.
Ralph Elliott Coleman	Saranac Lake, N. Y.	8 College st.
John Francis Collins	Wallingford, Conn.	35 High st.
Carleton Alexander Connell	Scranton, Pa.	242 D.
Joseph Connolly	Roxbury, Mass.	8 College st.
Joseph Addison Copp	Chicago Heights, Ill.	22 College st.
Alan Lyle Corey	New York City	22 College st.
Chanter Cornish	Yonkers, N. Y.	173 L.
Edward Boies Cowles	Rye, N. Y.	116 W.
Francis William Crandall	Westfield, N. Y.	22 College st.
John Douglas Crawford	Randolph, Mass.	8 College st.
William Anthony Curran	Holyoke, Mass.	161 L.
James McLellan Dain	Pekskill, N. Y.	22 College st.
Frederic Joseph Daly	Cambridge, Mass.	8 College st.
Frank Damrosch, Jr.	New York City	357 WH.
James Dwight Dana	New Haven, Conn.	260 Crown st.
George Webster Darr	Wilkinsburg, Pa.	22 College st.
Clinton Wildes Davis	Portland, Me.	22 College st.
Henry Barnard Davis	Grand Rapids, Mich.	178 L.
Malcolm Waters Davis	Hartford, Conn.	22 College st.
Sherwood Sunderland Day	Catskill, N. Y.	22 College st.
Rodney Dean	Orange, N. J.	260 Crown st.
Charles Shaver DeLong	Chicago, Ill.	22 College st.
Robert Champion Deming	New Haven, Conn.	260 Crown st.
John Bourne Dempsey	Cleveland, O.	22 College st.
Scoville Thomas Devan	Stamford, Conn.	165 L.
Edward Jordan Dimock	Elizabeth, N. J.	260 Crown st.
John Templeman Doneghy, Jr.	Macon, Mo.	8 College st.
Francis Drake	Chicago, Ill.	8 College st.
William McKee Dunn	Hot Springs, Va.	22 College st.
William Brooke Dunwoody	Philadelphia, Pa.	164 L.
Ralph Brintnall Durell	Somerville, Mass.	225 Crown st.
Thomas William Durkin	Brookfield, Mass.	193 F.
Charles Clement Elwell, Jr.	New London, Conn.	22 College st.
Andrew Jefferson Ely	New Haven, Conn.	193 F.
Wilson Barton Emery	New Haven, Conn.	213 Blatchley av.
Rowland Evans, Jr.	Haverford, Pa.	8 College st.

Clinton Ellsworth Farnham	<i>Westfield, Mass.</i>	149 L.
Robert Leslie Ficks	<i>Cincinnati, O.</i>	8 College st.
John W Field	<i>Washington, D. C.</i>	22 College st.
Joel Ellis Fisher, Jr.	<i>New York City</i>	22 College st.
Henry Lloyd Folsom	<i>Orange, N. J.</i>	8 College st.
Stanhope Foster	<i>Westport, Conn.</i>	180 L.
Howard Tallmadge Foulkes	<i>Milwaukee, Wisc.</i>	254 Crown st.
Waldo David Frank	<i>New York City</i>	254 Crown st.
Howard Brooks Freeman	<i>Plainfield, N. J.</i>	236 Crown st.
Stuart Fox Freeman	<i>Plainfield, N. J.</i>	236 Crown st.
Seth Barton French, 2d	<i>New York City</i>	8 College st.
Leo Charles Fuller	<i>St. Louis, Mo.</i>	236 Crown st.
Arthur Amory Gammell	<i>Providence, R. I.</i>	22 College st.
James Prentice Garland	<i>Saco, Me.</i>	22 College st.
Frederick Lawrence Gay	<i>Los Angeles, Cal.</i>	260 Crown st.
Charles William Gaylord	<i>Branford, Conn.</i>	148 L.
Henry Gemmer	<i>Hackensack, N. J.</i>	249 Crown st.
Robert Alexander Gibney	<i>New York City</i>	22 College st.
Howell Gilbert	<i>Grand Rapids, Mich.</i>	446 FW.
James Parke Gillespie	<i>Orange, N. J.</i>	8 College st.
Robert Philip Goldman	<i>Cincinnati, O.</i>	236 Crown st.
Stanley A Goldsmith	<i>New London, Conn.</i>	255 Crown st.
Fisher Goodhue	<i>New York City</i>	22 College st.
Lawrence Manche Goodman	<i>Youngstown, O.</i>	174 L.
Havens Grant	<i>Jamestown, N. Y.</i>	8 College st.
Charles Edwin Graves	<i>New Haven, Conn.</i>	366 WH.
Clifford Hendryx Graves	<i>New Haven, Conn.</i>	232 Bradley st.
Giles Pollard Greene	<i>Honesdale, Pa.</i>	250 Crown st.
George Newton Gregory	<i>New York City</i>	350 WH.
Stephen Strong Gregory, Jr.	<i>Chicago, Ill.</i>	22 College st.
Martin Hall Griffing	<i>Danbury, Conn.</i>	11 College st.
Robert Kalman Haas	<i>New York City</i>	22 College st.
Mark Anthony Hall	<i>Cedar Rapids, Ia.</i>	155 L.
Richard Ware Hall	<i>Omaha, Nebr.</i>	8 College st.
Edward Harrah	<i>New York City</i>	8 College st.
L'Engle Hartridge	<i>Jacksonville, Fla.</i>	468 FW.
Arthur Mowry Hartwell	<i>Albany, N. Y.</i>	260 Crown st.
Harold Talbot Hartwell	<i>Danbury, Conn.</i>	11 College st.
Justus Miller Hartwell	<i>Upper Troy, N. Y.</i>	250 Crown st.
Merrill George Hastings	<i>Winchendon, Mass.</i>	250 Crown st.
Robert Day Hastings	<i>Hartford, Conn.</i>	251 Crown st.
Clarence Bolton Hawke	<i>Warren, Pa.</i>	99 W.
Henry William Heinrich	<i>Clinton, Mass.</i>	155 L.

Erastus Henry Hewitt	<i>Williamstown, Mass.</i>	260 Crown st.
Charles Virgil Hickox, Jr.	<i>Springfield, Ill.</i>	8 College st.
Henry Morrison Hille	<i>Bath, N. Y.</i>	170 L.
James Theodore Hillhouse	<i>Willimantic, Conn.</i>	179 F.
Carroll Clark Hincks	<i>Andover, Mass.</i>	172 L.
Lyman Northrop Hine	<i>New York City</i>	262 D.
Carl Hitchcock	<i>Ansonia, Conn.</i>	153 L.
Reuben Andrus Holden, Jr.	<i>Cincinnati, O.</i>	22 College st.
Howard Keys Hollister	<i>Cincinnati, O.</i>	11 College st.
John Baker Hollister	<i>Cincinnati, O.</i>	22 College st.
Joseph Horne	<i>Pittsburg, Pa.</i>	22 College st.
Edward Gillette Hotchkiss	<i>Millerton, N. Y.</i>	22 College st.
Guy Morris Howland	<i>Asheville, N. C.</i>	250 Crown st.
Allen Skinner Hubbard	<i>Auburn, N. Y.</i>	166 L.
Maxwell Crouse Hughes	<i>West Pittston, Pa.</i>	225 Crown st.
Treat Clark Hull	<i>Danbury, Conn.</i>	11 College st.
Clarke Fox Hunn	<i>Rochester, N. Y.</i>	236 Crown st.
Frederick Walton Hyde, Jr.	<i>St. Albans, Vt.</i>	22 College st.
Harry Stuart Irons	<i>Elkins, W. Va.</i>	181 L.
Waldemar Hubbell Jacob	<i>Cincinnati, O.</i>	8 College st.
Walter Jamison	<i>Hazleton, Pa.</i>	151 L.
Ralph Herbert Jewell	<i>Washington, D. C.</i>	250 Crown st.
Thomas Slater Johnston, Jr.	<i>Rochester, N. Y.</i>	468 FW.
John Lawrence Keenan	<i>Boston, Mass.</i>	81 C.
Malcolm Kemper	<i>Cincinnati, O.</i>	163 York st.
Frederick Boughton Keppy	<i>Brooklyn, N. Y.</i>	236 Crown st.
Austin Jerome Kilbourn	<i>Hartford, Conn.</i>	249 Crown st.
Jonathan Francis Kilbourn	<i>Hartford, Conn.</i>	249 Crown st.
John Reed Kilpatrick	<i>New York City</i>	22 College st.
William Turney Kimber	<i>Springfield, Ill.</i>	8 College st.
Richard Ransom King	<i>Hartford, Conn.</i>	22 College st.
Francis William Kittredge Jr.	<i>Boston, Mass.</i>	22 College st.
Louis Kofsky	<i>Hartford, Conn.</i>	147 L.
Franklin Stevenson Koons	<i>Topeka, Kans.</i>	107 W.
David Laird Krebs, Jr.	<i>Clearfield, Pa.</i>	254 Crown st.
Floyd Eugene Lamb	<i>Auburn, N. Y.</i>	153 L.
Harold Morton Landon	<i>New York City</i>	8 College st.
Earl Langstroth	<i>Glen Ridge, N. J.</i>	36 v.
Thomas Armitage Larremore	<i>New York City</i>	260 Crown st.
Frank Waldo Lathrop	<i>New London, Conn.</i>	250 Crown st.
Frederick Abraham Laubscher	<i>Rockville, Conn.</i>	150 L.
Kenneth LeBlanc	<i>New Orleans, La.</i>	8 College st.
Solomon Lester Levy	<i>Wilmington, Del.</i>	141 W.
Frank Grassy Lewis	<i>Newport, R. I.</i>	151 L.

Harold Mayo Lewis	<i>Somerville, Mass.</i>	254 Crown st.
James McKeen Lewis	<i>Morristown, N. J.</i>	169 L.
Raymond Williams Lewis	<i>New Britain, Conn.</i>	22 College st.
Joseph Prescott Little	<i>Manchester, Conn.</i>	149 L.
Edmund Pendleton Livingston	<i>Catskill Station, N. Y.</i>	8 College st.
Cornelius Ennis Lombardi	<i>Berkeley, Cal.</i>	22 College st.
Abbot Augustus Low, Jr.	<i>Brooklyn, N. Y.</i>	22 College st.
Robert Barrie Luchars	<i>Montclair, N. J.</i>	8 College st.
William Archibald McAfee	<i>New Haven, Conn.</i>	260 Crown st.
Shirley McAndrew	<i>Ojai Valley, Ventura Co., Cal.</i>	260 Crown st.
John Vincent McDonnell	<i>New York City</i>	8 College st.
John T. McGraw	<i>Grafton, W. Va.</i>	7 College st.
William Glenn McKee	<i>Pittsburg, Pa.</i>	249 Crown st.
James Edward McKnight	<i>Waterbury, Conn.</i>	89 C.
William Erle McMicken	<i>Seattle, Wash.</i>	24 College st.
Paul Griswold Macy	<i>Newington, Conn.</i>	152 L.
William DeForest Manice	<i>New York City</i>	22 College st.
George Walter Mannel	<i>Rockville, Conn.</i>	156 L.
Alexander Drummond Marks	<i>Brooklyn, N. Y.</i>	8 College st.
Irving Wolff Marshall	<i>Auburn, N. Y.</i>	251 Crown st.
Frank Russell Mason	<i>Groton, Mass.</i>	152 Temple st.
Orion Augustus Mason	<i>Medway, Mass.</i>	196 F.
George Matthews	<i>Buffalo, N. Y.</i>	263 D.
Stanley Penfield Mead	<i>New Canaan, Conn.</i>	178 L.
Ward Charles Meagher	<i>New York City</i>	225 Crown st.
George Crandal Meagley	<i>Binghamton, N. Y.</i>	227 Crown st.
Egbert Mersereau	<i>Portland, Oregon</i>	22 College st.
Robert Anderson Miller, Jr.	<i>Ponce, Porto Rico</i>	215 F.
William Cammack Miller	<i>Cleveland Park, D. C.</i>	22 College st.
Walter Hall Mills	<i>Dorchester Center, Mass.</i>	8 College st.
Russell Mitcheltree	<i>West Middlesex, Pa.</i>	154 L.
Miles Anson Morgan	<i>Ilion, N. Y.</i>	175 L.
Effingham Buckley Morris, Jr.	<i>Ardmore, Pa.</i>	8 College st.
Lawrence Stillman Morrison	<i>Redlands, Cal.</i>	22 College st.
Karl Mosser	<i>Boston, Mass.</i>	22 College st.
George Ray Nettleton	<i>Milford, Conn.</i>	662 Yale P. O.
Samuel Johnson Newman	<i>New Haven, Conn.</i>	255 Crown st.
William Porter Norcom	<i>New Haven, Conn.</i>	396 B.
Morgan John Gray O'Brien	<i>New York City</i>	22 College st.
Edward O'Bryan, Jr.	<i>Chicago, Ill.</i>	8 College st.
Walter Thomas O'Donohue	<i>Hartford, Conn.</i>	Hartford
Edward William Brown Parkinson	<i>Brooklyn, N. Y.</i>	155 L.
Paul Patterson	<i>Pittsburg, Pa.</i>	249 Crown st.
Robert Alexander Patterson	<i>Bristol, Conn.</i>	162 L.

Morgan Martin Pattison	<i>Superior, Wisc.</i>	228 Crown st.
Stuyvesant Peabody	<i>Chicago, Ill.</i>	8 College st.
Frederic Arnold Pease	<i>Pittsfield, Mass.</i>	22 College st.
Allen Danforth Pettee	<i>Cleveland, O.</i>	170 L.
George Emerson Pettit	<i>Far Rockaway, L. I., N. Y.</i>	161 L.
Richardson Phelps	<i>Minneapolis, Minn.</i>	456 FW.
Ewing Reginald Philbin	<i>New York City</i>	8 College st.
Howard Francis Phipps	<i>Waterbury, Conn.</i>	249 Crown st.
Lawrence William Phipps	<i>Waterbury, Conn.</i>	249 Crown st.
William Trigg Pigott, Jr.	<i>Helena, Mont.</i>	8 College st.
Gardner Carter Porter	<i>Arlington, Mass.</i>	236 Crown st.
Arthur Leo Price	<i>New York City</i>	254 Crown st.
Erving Hascall Rand	<i>Lawrence, L. I., N. Y.</i>	8 College st.
Francis Fitz Randolph	<i>Baltimore, Md.</i>	8 College st.
Lawrence Avery Rankin	<i>Peckskill, N. Y.</i>	257 D.
Fred Carl Reckert	<i>Terre Haute, Ind.</i>	260 Crown st.
Charles Lawson Reed	<i>Cincinnati, O.</i>	22 College st.
Thomas Pattison Reid	<i>Shelton, Conn.</i>	197 F.
Stanley Richardson	<i>San Francisco, Cal.</i>	22 College st.
Francis Bayard Rives	<i>New York City</i>	8 College st.
Edward Lewelyn Roberts, Jr.	<i>Chicago, Ill.</i>	456 FW.
William Meade Robinson, Jr.	<i>Louisville, Ky.</i>	22 College st.
Charles Phinney Rodenbach	<i>Naugatuck, Conn.</i>	249 Crown st.
Roy Ross	<i>Cowan, Tenn.</i>	82 C.
Zeno Carl Ross	<i>Beverly, Mass.</i>	22 College st.
Lippman Levy Rothschild	<i>Buffalo, N. Y.</i>	236 Crown st.
John Eliot Rowland	<i>Plainfield, N. J.</i>	22 College st.
John Tilghman Rowland	<i>Greenwich, Conn.</i>	163 L.
Joseph Franck Rumsey, Jr.	<i>Lake Forest, Ill.</i>	8 College st.
Clarence Wardell St. John	<i>Simsbury, Conn.</i>	164 L.
James Waugh Sanders	<i>Montclair, N. J.</i>	168 L.
Richard Collier Sargent	<i>New Haven, Conn.</i>	22 College st.
Bernard Wertheimer Scharff	<i>Natchez, Miss.</i>	254 Crown st.
Henry Pepper Scott, Jr.	<i>Wilmington, Del.</i>	22 College st.
Frank Dyckman Scudder	<i>New York City</i>	155 Elm st.
Raymond Seabrook	<i>New York City</i>	22 College st.
Fidardo Reuben Serri	<i>Proctor, Vt.</i>	81 C.
Kenneth Hanna Sessions	<i>Pittsburg, Pa.</i>	8 College st.
Frederick Dwight Seward	<i>Binghamton, N. Y.</i>	181 L.
Alex Wessel Shapleigh	<i>St. Louis, Mo.</i>	22 College st.
Howard Francis Shattuck	<i>Columbus, O.</i>	181 L.
Edward Ely Sherman	<i>New Baltimore, N. Y.</i>	171 L.
John Homer Sherman	<i>Fremont, O.</i>	236 Crown st.
Henry Knox Sherrill	<i>Brooklyn, N. Y.</i>	22 College st.

Sturges Bradford Shields	<i>New York City</i>	22 College st.
Arthur Meyer Sidenberg	<i>New York City</i>	236 Crown st.
Archer Roberts Simpson	<i>Orange, Mass.</i>	160 L.
Gilbert Max Smith	<i>Evanston, Ill.</i>	257 D.
Harold Ellsworth Smith	<i>New York City</i>	148 L.
Oliver Harrison Smith	<i>Hartford, Conn.</i>	22 College st.
Felix Brunot Snowdon	<i>Brownsville, Pa.</i>	97 W.
Leslie Soule	<i>Dorchester Center, Mass.</i>	22 College st.
Edmund Courtlandt Stanton	<i>New York City</i>	260 Crown st.
Mason Brayman Starring, Jr.	<i>Chicago, Ill.</i>	22 College st.
Scott Sterling	<i>Lawrence, Kans.</i>	264 D.
Carl Isaac Stix	<i>Cincinnati, O.</i>	236 Crown st.
Frederick Brett Stokes	<i>New York City</i>	22 College st.
James Cashmon Sweeney	<i>New York City</i>	251 Crown st.
John Martin Sweeney, Jr.	<i>Naugatuck, Conn.</i>	77 C.
Thomas William Symons, Jr.	<i>Washington, D. C.</i>	22 College st.
George Hamlet Taylor	<i>Rochester, N. Y.</i>	236 Crown st.
Ralph Emerson Taylor	<i>Dennisville, N. J.</i>	150 L.
John Taylor Terry, 3d	<i>New York City</i>	22 College st.
Henry Nelson Tetreault	<i>Augusta, Me.</i>	186 F.
Clarence Proctor Thomas	<i>New York City</i>	169 L.
Benjamin Casper Thompson	<i>St. Paul, Minn.</i>	8 College st.
Harold Hayward Thresher	<i>Norwich, Conn.</i>	158 L.
Orrin Herbert Tilson	<i>Grapevine, N. C.</i>	22 College st.
Benjamin Hartshorne Trask	<i>Highlands, N. J.</i>	236 Crown st.
Morton Candee Treadway	<i>Bristol, Conn.</i>	448 FW.
Yün-hsiang Ts'ao	<i>Shanghai, China</i>	311 Crown st.
Gouverneur Morris Wilkins Turnbull	<i>New York City</i>	249 Crown st.
Cyrus Calhoun Turner, Jr.	<i>New York City</i>	260 Crown st.
Herbert Orvin Tuttle	<i>Warren, Mass.</i>	160 L.
Harry Brinsmade Van Sinderen	<i>Brooklyn, N. Y.</i>	8 College st.
John David Wachman	<i>Cincinnati, O.</i>	236 Crown st.
Robert Coleman Walker	<i>Richmond, Va.</i>	8 College st.
Benjamin Franklin Bean Wallis	<i>Dorchester Center, Mass.</i>	116 W.
Chêng-t'ing Thomas Wang	<i>Ningpo, China</i>	66 Whalley av.
Everett Oyler Waters	<i>New York City</i>	173 L.
James Webster Waters	<i>Buffalo, N. Y.</i>	22 College st.
Charles Aloysius Welch	<i>New Haven, Conn.</i>	23 Bradley st.
Alexander Royal Wheeler	<i>Endeavor, Pa.</i>	22 College st.
Edward Curtis Wheeler	<i>Westerleigh, S. I., N. Y.</i>	22 College st.
Lawrence Raymond Wheeler	<i>Portville, N. Y.</i>	22 College st.
William Reginald Wheeler	<i>Endeavor, Pa.</i>	22 College st.
William Preston White	<i>St. Paul, Minn.</i>	468 FW.
Arthur Williams, Jr.	<i>Mt. Vernon, N. Y.</i>	457 FW.

Stanley Thomas Williams	<i>Meriden, Conn.</i>	250 Crown st.
Frank Miller Willis	<i>Worcester, Mass.</i>	168 L.
Alexander Augustus Wilson	<i>San Francisco, Cal.</i>	133 W.
Harold Irving Wood	<i>Gardner, Mass.</i>	341 WH.
Edgar Montillion Woolley	<i>New York City</i>	22 College st.
Clifford Ramsey Wright	<i>Cincinnati, O.</i>	22 College st.
Philip North Wright	<i>Detroit, Mich.</i>	22 College st.
Walter Esher Yaggy	<i>Hutchinson, Kans.</i>	8 College st.

SOPHOMORE CLASS, 312

## FRESHMAN CLASS, 1912

Chün Wing Sen Afong	<i>Macao, China</i>	200 York st.
Charles Guy Algase	<i>Utica, N. Y.</i>	544 P.
Hugh Wesley Alger	<i>Rome, Pa.</i>	122 Wall st.
Royden Wolcott Allen	<i>Terryville, Conn.</i>	570 P.
William Nelson Allen	<i>Brooklyn, N. Y.</i>	541 P.
Arthur Franklin Amadon	<i>Boston, Mass.</i>	219 F.
Wesley Marcy Arbuckle	<i>New Haven, Conn.</i>	33 Howard av.
Charles Arbuthnot, 3d	<i>Pittsburg, Pa.</i>	250 York st.
Arthur Hammond Armstrong	<i>New York City</i>	598 P.
Howard Daniels Atkins	<i>Denver, Colo.</i>	570 P.
Floyd Brush Augustine	<i>Kirkwood, Mo.</i>	242 York st.
Maltbie Lathrop Babcock	<i>Syracuse, N. Y.</i>	584 P.
Sidney Raymond Baer	<i>St. Louis, Mo.</i>	250 York st.
Cyrus Baird	<i>New Haven, Conn.</i>	95 Olive st.
David Sherman Baker	<i>Wickford, R. I.</i>	11 College st.
Hamill Wood Baker	<i>Terre Haute, Ind.</i>	11 College st.
Earle Hoit Ballou	<i>Chester, Vt.</i>	532 P.
Harold Lewis Banghart	<i>Bethel, Me.</i>	92 C.
Philetus Cooley Bankson	<i>Erie, Pa.</i>	93 C.
Thomas Bardon, Jr.	<i>Ashland, Wisc.</i>	594 P.
Howard Burton Bartholomew	<i>Cobleskill, N. Y.</i>	39 Lynwood pl.
Evans Ellicott Bartlett	<i>Buffalo, N. Y.</i>	531 P.
William LeRoy Bates	<i>Bennington, Vt.</i>	226 F.
Donald Beers	<i>New Haven, Conn.</i>	65 York sq.
Joseph LeConte Bell	<i>Aiken, S. C.</i>	597 P.
Dwight Hadley Bennett	<i>Brooklyn, N. Y.</i>	250 York st.
Allan Richardson Bensinger	<i>Stroudsburg, Pa.</i>	221 F.
Charles Frederic Berg	<i>Orange, N. J.</i>	250 York st.
Julian Cornell Biddle	<i>Philadelphia, Pa.</i>	231 York st.
Cyril Walter Bigelow	<i>Brookline, Mass.</i>	566 P.
Bryce Wadhams Blair	<i>Wyoming, Pa.</i>	9 Library st.
Watson Keep Blair	<i>Chicago, Ill.</i>	242 York st.
Alexander Blum	<i>New York City</i>	250 York st.
Edward Townsend Booth	<i>Plainfield, N. J.</i>	250 York st.
Walter Thorpe Bosworth	<i>Providence, R. I.</i>	572 P.
Percival Vaughan Bowen	<i>Buffalo, N. Y.</i>	561 P.
Frank Tennis Bowman, Jr.	<i>Cleveland, O.</i>	242 York st.
Francis Thibault Boyd	<i>Brookline, Mass.</i>	217 York st.
Horace Rollin Boynton, Jr.	<i>Los Angeles, Cal.</i>	260 Crown st.
Sidney George Bradford	<i>Edgemoor, Del.</i>	262 York st.
Herbert Newton Bradley	<i>East Orange, N. J.</i>	1076 Chapel st.
Joseph Henry Bragdon	<i>Brooklyn, N. Y.</i>	22 College st.



Paul Stilwell Brinsmade	New York City	242 York st.
Traver Briscoe	Norwich, Conn.	563 P.
Theodore Leffingwell Bronson	New Haven, Conn.	242 York st.
Cyril Brown	Port Chester, N. Y.	1136 Chapel st.
Jervis Densmore Brown, Jr.	Milford, Conn.	Milford
Leslie Parker Brown	Waterbury, Conn.	533 P.
Orlando Cobden Brown	Danbury, Conn.	416 B.
Horace DeWitt Brush	Brookline, Mass.	254 York st.
William Christian Bullitt, Jr.	Philadelphia, Pa.	242 York st.
Donald Edward Burger	New Rochelle, N. Y.	550 P.
John Stephen Burke	Norwich, Conn.	423 Temple st.
James Kirby Burrell	Utica, N. Y.	587 P.
John Mansfield Burrill	New York City	254 York st.
John Hugus Caldwell	Omaha, Nebr.	266 York st.
Orton Platt Camp	Waterbury, Conn.	231 York st.
Jasper Adams Campbell, Jr.	New York City	237 York st.
Harold Whitfield Carhart	Greenwich, Conn.	242 York st.
Frank Alfred Carlson	Greenfield, Mass.	862 Yale P. O.
James Carney	Bridgeport, Conn.	197 F.
Richard Lyon Carpenter	Brooklyn, N. Y.	231 York st.
Carroll Chevalier Carstairs	Philadelphia, Pa.	159 Elm st.
Clarence Russell Carter	Norfolk, Conn.	536 P.
Theodore Willard Case	Auburn, N. Y.	242 York st.
George Garvin Chandler	Whitford, Pa.	546 P.
John Chandler	Chestnut Hill, Mass.	545 P.
Charles Douglas Chapin	Chicago, Ill.	250 York st.
William Burr Chapman	Kansas City, Mo.	242 York st.
Erford Whitcomb Chesley	Worcester, Mass.	388 B.
Kortright Church	Washington, D. C.	8 College st.
William Bare Cist	Cincinnati, O.	237 York st.
William Mansur Claffin	New York City	598 P.
Harold Clinton Clapp	Berryville, Va.	250 York st.
Edward Aloysius Clark	Franklin, N. H.	125 High st.
Salter Storrs Clark, Jr.	Westfield, N. J.	591 P.
Sidney Tuttle Clark	Binghamton, N. Y.	8 College st.
Willis Kellogg Clark	Rochester, N. Y.	250 York st.
George Steele Clarke	New Orleans, La.	250 York st.
Robert Parker Clarke	New York City	250 York st.
Harold Tripp Clement	Buffalo, N. Y.	242 York st.
Napoleon Arthur Clouet	New Haven, Conn.	142 Newhall st.
Louis Connick	New York City	217 York st.
Eugene Thomas Connolly	Beverly Farms, Mass.	583 P.
Laurence Marshall Cornwall	Bridgeport, Conn.	242 York st.

Joseph Lacasse Côté, Jr.	Greensburg, Pa.	238 York st.
John Cornelius Coughlin	Augusta, Me.	525 P.
John Alexander Craig	Duluth, Minn.	311 York st.
Benjamin Francis Crowley	Danvers, Mass.	554 P.
Stanley Cummings	Plantsville, Conn.	543 P.
Howard Wheeler Curtis	Stratford, Conn.	231 York st.
Jonathan Stone Cuthbertson	Revere, Mass.	538 P.
George Glass Davitt	Pittsburg, Pa.	1169 Chapel st.
Eric Powell Dawson	Taunton, Mass.	581 P.
Frederic Lansing Day	West Newton, Mass.	584 P.
Harold Spencer Day	Catskill, N. Y.	231 York st.
Bennett DeBeixedon	Brooklyn, N. Y.	548 P.
Louis Everit DeForest	New Haven, Conn.	335 Orange st.
Aaron Levan Dettra	Norristown, Pa.	552 P.
Jacob MacGavock Dickinson, Jr.	Chicago, Ill.	238 York st.
George Edward Dimock, Jr.	Elizabeth, N. J.	250 York st.
George Kenneth Donald	Mobile, Ala.	250 York st.
James Dunlap, Jr.	Philadelphia, Pa.	535 P.
Orville Rich Dunn	Champlain, N. Y.	266 York st.
Sydney Dunham Dyer	Cleveland, O.	260 Crown st.
Frederick Eckstein	Cincinnati, O.	8 College st.
Harry Louis Edlin	Hartford, Conn.	133 Bradley st.
James Clarence Egan	Cincinnati, O.	238 York st.
Symund Mason Ehrman	Portland, Oregon	236 Crown st.
Frederick Wyllys Eliot, Jr.	North Guilford, Conn.	373 Crown st.
Jay Morse Ely	Chicago, Ill.	242 York st.
Herman Rutgers LeRoy Emmet	New Rochelle, N. Y.	242 York st.
Xerxes John Farrar	London, O.	248 York st.
James Briggs Felton	Manchester, N. H.	242 York st.
Kenneth Lucas Fenton	Portland, Oregon	422 B.
William Francis Flagg	New York City	262 York st.
Pomeroy Tucker Francis	Troy, N. Y.	250 York st.
Sidney Rowland Francis	St. Louis, Mo.	250 York st.
Edgar Wells Freeman	Plainfield, N. J.	250 York st.
Raymond Wallace Frohman	Portland, Oregon	575 P.
Elliott Frost	Waltham, Mass.	22 College st.
Cecil Banks Gardner	Derby, Conn.	523 P.
Leroy Upson Gardner	Meriden, Conn.	262 York st.
Robert Abbe Gardner	Chicago, Ill.	242 York st.
Laurence Swift Garland	Saco, Me.	242 York st.
Ernest Gaston	Kaufman, Texas	141 Dwight st.
Allen Hazen Gates	Thomaston, Conn.	226 P.
Franklin Herbert Gates	Montclair, N. J.	340 WH.

Arthur Vincent Geary	New Haven, Conn.	479 Orange st.
Stanley Easton Gifford	Dedham, Mass.	237 York st.
Ansel Whiting Gillis	Mt. Pleasant, Ia.	172 L.
Samuel Glover	Fairfield, Conn.	250 York st.
Harry Stuart Goldey	Philadelphia, Pa.	590 P.
Arthur Lehman Goodhart	New York City	250 York st.
Charles Nathan Goodnow	Natick, Mass.	538 P.
George Arthur Goodson, Jr.	Minneapolis, Minn.	251 Crown st.
Eugene Hollister Gray	Maine, N. Y.	183 L.
Charles Terry Greenwood	Brooklyn, N. Y.	524 P.
William Vincent Griffin	New Haven, Conn.	19 Eld st.
Myer Grosberg	Schenectady, N. Y.	55 Prospect st.
Clifford Argyle Gross	Elkins, W. Va.	788 Yale P. O.
Charles Harvey Hadley, Jr.	Brooklyn, N. Y.	230 F.
James Augustus Haight, Jr.	Seattle, Wash.	22 College st.
Stanley Jacques Halle	New York City	233 York st.
Thomas Lyon Hamilton	Nyack, N. Y.	155 Elm st.
Frank Lovell Harrington	Brooklyn, N. Y.	250 York st.
Stanley Gale Harris	Chicago, Ill.	248 York st.
Mervin Stanley Hart	New Britain, Conn.	254 York st.
Cavour Hartley	Duluth, Minn.	248 York st.
Leon Hanssen Hass	Davenport, Ia.	528 P.
Henry Panet Hastings	Hartford, Conn.	567 P.
Daniel Addison Heald	Orange, N. J.	242 York st.
John Lawrence Healy	Newport, R. I.	88 C.
Carl Ivar Hellstrom	Hartford, Conn.	93 C.
Peter Henderson	New York City	242 York st.
Charles Frederick Hennessey	Dorchester, Mass.	187 F.
William Jacob Herman	Nashville, Tenn.	539 P.
Harold Edward Herrick	Lawrence, L. I., N. Y.	238 York st.
Edwin Norman Hickman	New Haven, Conn.	557 P.
Hamilton Alexander Higbie	Jamaica, N. Y.	86 Howe st.
Cyrus Giles Hill	Chicago, Ill.	238 York st.
Jacob Himovich	Bayonne, N. J.	63 York st.
Harold Koppel Hochschild	New York City	200 York st.
John Marshall Holcombe, Jr.	Hartford, Conn.	22 College st.
Henry Daggett Hooker, Jr.	Brooklyn, N. Y.	92 C.
Arthur Corbett Hoskins	St. Louis, Mo.	242 York st.
Floyd Dunbar Hotchkiss	Watertown, Conn.	530 P.
John Glenny Howard	Buffalo, N. Y.	248 York st.
Arthur Howe	South Orange, N. J.	242 York st.
Edward Judson Hoyt	St. Petersburg, Fla.	231 York st.
Donald Robertson Hyde	St. Albans, Vt.	231 York st.

George Frederic Ingersoll	<i>Sioux City, Ia.</i>	260 Crown st.
James Lowry Jack	<i>Indiana, Pa.</i>	254 Crown st.
Ralph Waldo Jefferson	<i>New York City</i>	558 P.
Reuben Jeffery, Jr.	<i>Norwich, N. Y.</i>	8 College st.
John Mack Jenner	<i>Mansfield, O.</i>	573 P.
William Travers Jerome, Jr.	<i>Lakeville, Conn.</i>	231 York st.
McCormick Jewett	<i>Chicago, Ill.</i>	238 York st.
Alexander Bryan Johnson	<i>Yonkers, N. Y.</i>	175 L.
Crompton Tuttle Johnson	<i>Hartford, Conn.</i>	551 P.
Hewette Elwell Joyce	<i>New Brunswick, N. J.</i>	582 P.
Ernest Sherwin Kavanagh	<i>Plymouth Union, Vt.</i>	158 L.
William Kirk Kaynor	<i>Sanborn, Ia.</i>	231 York st.
Ralph Keeler	<i>Stamford, Conn.</i>	549 P.
William Paul Keenan	<i>Westfield, Mass.</i>	225 F.
Francis Rusher Kerr	<i>Newport, R. I.</i>	627 E. D.
Joseph Stickney Kimball	<i>Boston, Mass.</i>	250 York st.
Hiram Mac Farlane King	<i>Stamford, Conn.</i>	547 P.
Henry Wright Kirby	<i>Cleveland, O.</i>	11 College st.
Harold Louis Klein	<i>Hartford, Conn.</i>	936 Grand av.
Francis McMaster Knight	<i>Evanston, Ill.</i>	578 P.
Samuel Kramer	<i>Hartford, Conn.</i>	217 York st.
David Robert Kreider	<i>Annville, Pa.</i>	521 P.
William Siebert Lambie	<i>Glenosborne, Pa.</i>	200 York st.
Charles Lewis Larkin	<i>Waterbury, Conn.</i>	266 York st.
John Ruse Larus, Jr.	<i>Baltimore, Md.</i>	242 York st.
Darius Watts Lawrence	<i>Malone, N. Y.</i>	570 P.
Elmer Turell Learned	<i>Fall River, Mass.</i>	556 P.
Charles Taylor Lee	<i>New Milford, Conn.</i>	249 Crown st.
Tracy Hammond Lewis	<i>Great Neck, L. I., N. Y.</i>	540 P.
Harold Stevens Lines	<i>Newark, N. J.</i>	233 York st.
William Samuel Lines, Jr.	<i>Hartford, Conn.</i>	242 York st.
Bert Harry Long	<i>Cincinnati, O.</i>	183 L.
George Deming Loomis	<i>Granby, Conn.</i>	551 P.
Robert Fresnel Loree	<i>New York City</i>	226 York st.
Earle Trask Loucks	<i>Sanford, Fla.</i>	588 P.
William Harmon Loughridge	<i>Denver, Colo.</i>	599 P.
Arthur M. Lowenthal	<i>Rochester, N. Y.</i>	254 Crown st.
Russell Edwards Lupton	<i>Mattituck, N. Y.</i>	571 P.
John Thomas Lynch	<i>Scottsville, Va.</i>	124 Howe st.
Joseph Matthew Lynch	<i>Meriden, Conn.</i>	247 D.
Archibald McClure	<i>Lake Forest, Ill.</i>	574 P.
Donald McConaughy	<i>Mt. Hermon, Mass.</i>	600 P.
George Edward Ralph McCoy	<i>Philadelphia, Pa.</i>	592 P.

Elmer William McDevitt	Duluth, Minn.	250 York st.
Joseph Leo McEvitt	South Manchester, Conn.	229 F.
William Bernard McGuire	Manchester, Conn.	229 F.
John Alexander Magee	New Bloomfield, Pa.	34 Lynwood pl.
George Bennitt Marsh	New Milford, Conn.	221 Yale P. O.
Howard Champion Martin	Lakeville, Conn.	595 P.
Harry Ziegler Maxwell	Germantown, Pa.	552 P.
Samuel May	Portland, Oregon	217 York st.
Lloyd Othmar Mayer	Portland, Oregon	266 York st.
Edwin Henry Mead	South Orange, N. J.	250 York st.
George Gordon Mead	Greenwich, Conn.	250 York st.
Harry Mendel	Bridgeport, Conn.	Bridgeport
Nathan Menderson	Cincinnati, O.	248 York st.
Keith Merrill	Minneapolis, Minn.	135 Wall st.
Henry Newton Merritt	Nyack-on-Hudson, N. Y.	248 York st.
Robert James Milholland	Newburgh, N. Y.	183 L.
Francis Corwin Millspaugh	Utica, N. Y.	238 York st.
Harley Dyer Minnig	Erie, Pa.	163 York st.
Louis Frederick Moore	Dorchester, Mass.	219 F.
Rollin Donald Moore	Lockport, N. Y.	230 F.
Denison Morgan	New Haven, Conn.	242 York st.
Edward Thomas Morrill	New York City	18 College st.
Joseph Minott Mulford	Kansas City, Mo.	200 York st.
Frederic Parsons Mullins	Salem, O.	250 York st.
Charles Sherwood Munson	Woodbury, Conn.	242 York st.
Alfred Armstrong Murfey	Cleveland, O.	238 York st.
Gerald Clery Murphy	New York City	266 York st.
Vincent Bernard Murphy	Rochester, N. Y.	250 York st.
Royal Case Nemiah	Hartford, Conn.	231 F.
Paul Coe Nicholson	Providence, R. I.	22 College st.
Esmond Paul O'Brien	New York City	170 York st.
Percy James Orthwein	St. Louis, Mo.	238 York st.
John Caldwell Overbagh	Saugerties, N. Y.	573 P.
Charles Whitney Page, Jr.	Danvers, Mass.	237 York st.
Harold Schjöth Palmer	New Haven, Conn.	198 F.
Clifford Hayes Pangburn	New Haven, Conn.	359 WH.
Charles Abram Parcels	New Milford, Conn.	586 P.
Frank Hooker Parker	Auburn, N. Y.	521 P.
Merrill Olmsted Parker	Auburn, N. Y.	120 Bristol st.
Raymond Augustus Parker	Willimantic, Conn.	583 P.
Thomas Thacher Parks	East Cleveland, O.	250 York st.
John Jay Parry	Rome, N. Y.	231 York st.
Charles Parsons	New York City	238 York st.

John Palmer Parsons	<i>New York City</i>	242 York st.
Theodore Dwight Partridge	<i>New York City</i>	250 York st.
Charles Henry Paul	<i>Newton Center, Mass.</i>	596 P.
Arthur Howard Peck	<i>East Northfield, Mass.</i>	597 P.
Clarence Lee Perkins	<i>Hartford, Conn.</i>	595 P.
Henry TenEyck Perry	<i>Albany, N. Y.</i>	564 P.
Thomas McClure Peters	<i>New York City</i>	238 York st.
William Allison Peters, Jr.	<i>Seattle, Wash.</i>	580 P.
Richard Henry Phillips	<i>Hartford, Conn.</i>	242 York st.
Stewart Lansing Pittman	<i>Flushing, N. Y.</i>	248 York st.
Philip Skinner Platt	<i>Scranton, Pa.</i>	242 York st.
Sherman Phelps Platt	<i>New York City</i>	237 York st.
William Albert Prime, Jr.	<i>New York City</i>	8 College st.
Mortimore Robinson Proctor	<i>Proctor, Vt.</i>	242 York st.
Gordon Loring Rand	<i>Lawrence, L. I., N. Y.</i>	238 York st.
John Henry Reisner	<i>McConnellsburg, Pa.</i>	154 L.
Carlton Mortimore Reynolds	<i>Danbury, Conn.</i>	529 P.
Henry Blodget Richards	<i>New York City</i>	536 P.
George Finley Richmond, Jr.	<i>Dunkirk, N. Y.</i>	248 York st.
Charles Henry Rohrbach, Jr.	<i>Bridgeport, Conn.</i>	Bridgeport
Paul Leopold Rosenfeld	<i>New York City</i>	237 York st.
Stanley Melville Rowe	<i>Cincinnati, O.</i>	250 York st.
Maurice Trumbull Rowland	<i>Waterbury, Conn.</i>	231 York st.
Edwin Gardner Weed Ruge	<i>Apalachicola, Fla.</i>	248 York st.
Harry Albert Rungee	<i>New Haven, Conn.</i>	158 Greenwood av.
William Huntington Russell	<i>New Haven, Conn.</i>	137 Elm st.
August Charles Scharmann	<i>Brooklyn, N. Y.</i>	237 York st.
Fred Scholle	<i>New York City</i>	231 York st.
Stanley Franklin Schwaner	<i>New London, Conn.</i>	251 Crown st.
Brenton Hall Scott	<i>Detroit, Mich.</i>	250 York st.
Alfred Hubert Scovill, Jr.	<i>Watertown, Conn.</i>	231 York st.
Ludwig Karl Seith	<i>Mt. Morris, N. Y.</i>	590 P.
Gerald Arthur Shannon	<i>Seattle, Wash.</i>	266 York st.
Charles Shartenberg	<i>Pawtucket, R. I.</i>	236 Crown st.
Joseph Shelnitz	<i>New Haven, Conn.</i>	138 Cedar st.
Willis Huggins Post Shelton	<i>Montclair, N. J.</i>	534 P.
Oscar Carlton Shepard	<i>Waterbury, Conn.</i>	533 P.
Darwin Wait Sherman	<i>Glens Falls, N. Y.</i>	248 York st.
Horace Kinsley Thurber Sherwood	<i>Glen Cove, L. I., N. Y.</i>	226 York st.
Carlton Stedman Smith	<i>Newtown, Conn.</i>	80 Stanley st.
Charles Seaver Smith	<i>Shelton, Conn.</i>	1076 Chapel st.
Edward Herndon Smith	<i>Mobile, Ala.</i>	311 York st.
Floyd Robinson Smith, Jr.	<i>Brooklyn, N. Y.</i>	537 P.

Harold Vincent Smith	<i>Seattle, Wash.</i>	599 P.
James Gregory Smith	<i>St. Albans, Vt.</i>	248 York st.
Sumner Smith	<i>Lincoln, Mass.</i>	231 York st.
William Chester Smith	<i>Louisville, O.</i>	225 F.
Joseph Solomon	<i>New Haven, Conn.</i>	179 Oak st.
Stuart Leicester Southgate	<i>Boston, Mass.</i>	576 P.
Selden Palmer Spencer, Jr.	<i>St. Louis, Mo.</i>	237 York st.
Roger Wolcott Squire	<i>Meriden, Conn.</i>	262 York st.
Lewis Newkirk Stanton	<i>Dorchester, Mass.</i>	187 F.
John Ford Starr	<i>Chicago, Ill.</i>	250 York st.
Elliott Edmund Stearns	<i>Cleveland, O.</i>	7 Library st.
Harold Arnold Steiner	<i>Far Rockaway, L. I., N. Y.</i>	266 York st.
Edward Stevens	<i>New York City</i>	242 York st.
Paul Augustus Stevens	<i>Dover, Del.</i>	586 P.
John Cameron Stoddart	<i>Englewood, N. J.</i>	237 York st.
Henry Abbott Street	<i>Pawtucket, R. I.</i>	567 P.
Edwin Augustus Strout, Jr.	<i>Seattle, Wash.</i>	248 York st.
Charles Dallas Sunderland	<i>Logan, O.</i>	600 P.
Wallace Nathaniel Sweet	<i>Lebanon, Conn.</i>	371 Crown st.
William Harris Symington	<i>New York City</i>	242 York st.
Allen Peter Tanner	<i>Naugatuck, Conn.</i>	222 F.
Alexander Campbell Tener	<i>Sewickley, Pa.</i>	242 York st.
Eugene Morgan Thomasson	<i>Chattanooga, Tenn.</i>	250 York st.
Daniel Grant Tomlinson	<i>New York City</i>	250 York st.
Charlemagne Tower, Jr.	<i>Philadelphia, Pa.</i>	250 York st.
Edward Howard Townsend	<i>New York City</i>	242 York st.
Thomas Rufus Tracy	<i>Whitney Pt., N. Y.</i>	362 WH.
Chapin Filkins Tubbs	<i>Burlingame, Cal.</i>	254 York st.
Temple Haydn Tweedy	<i>Washington, D. C.</i>	91 Park st.
Edward Bancroft Twombly	<i>Summit, N. J.</i>	250 York st.
Harris Holmes Vail	<i>Cincinnati, O.</i>	250 York st.
Dixon Van Blarcom	<i>St. Louis, Mo.</i>	158 L.
Aaron Augustus Vanderpoel	<i>Orange, N. J.</i>	242 York st.
George van Santvoord	<i>Troy, N. Y.</i>	238 York st.
Robert Theodore Veit	<i>Bridgeport, Conn.</i>	Bridgeport
Clyde Harman Wady	<i>Brooklyn, N. Y.</i>	526 Yale P. O.
Alan Whittlesey Waite	<i>Hartford, Conn.</i>	507 Whitney av.
Charles Buckalew Waller	<i>Wilkes-Barre, Pa.</i>	237 York st.
Albert Alexander Ware	<i>Wayne, Pa.</i>	560 P.
David Chester Waring	<i>Brooklyn, N. Y.</i>	250 York st.
DeVer Cady Warner	<i>Bridgeport, Conn.</i>	242 York st.
John Stewart Watson	<i>Aurora, Ill.</i>	554 P.
Theodore Rogers Waugh, Jr.	<i>St. Albans, Vt.</i>	9 Library st.

Frank Webb	<i>Springfield, O.</i>	250 York st.
John Jacob Westermann, Jr.	<i>Chicora, Pa.</i>	250 York st.
Paul Mack Whelan	<i>New York City</i>	262 York st.
William Henry Whitcomb	<i>Bridgeport, Conn.</i>	527 P.
Lewis Merriam Wiggin	<i>Litchfield, Conn.</i>	233 York st.
Harold Curtiss Wilcox	<i>Meriden, Conn.</i>	231 York st.
Mount Kenmoren Wild	<i>Piqua, O.</i>	577 P.
Josiah Macy Willets	<i>White Plains, N. Y.</i>	22 College st.
Theodore Dempster Williams	<i>Brooklyn, N. Y.</i>	537 P.
Holden Wilson.	<i>Cincinnati, O.</i>	238 York st.
Stuart Strong Wilson	<i>Binghamton, N. Y.</i>	250 York st.
David Hadley Wiltsie	<i>Jamestown, N. Y.</i>	579 P.
John Russell Winterbotham, Jr.	<i>Chicago, Ill.</i>	250 York st.
Asa Allen Woodruff	<i>Scranton, Pa.</i>	578 P.
John Butler Woodward, Jr.	<i>Wilkes-Barre, Pa.</i>	237 York st.
Henry Wagner Wright	<i>Chicago, Ill.</i>	262 York st.
John Rouey Wright	<i>Pittsburg, Pa.</i>	559 P.
William Witter Wright	<i>Putnam, Conn.</i>	225 P.
Allan Wheeler York	<i>North Stonington, Conn.</i>	593 P.
Edward Howard York, Jr.	<i>Philadelphia, Pa.</i>	231 York st.
William Longley York	<i>Philadelphia, Pa.</i>	231 York st.
John Wallace Young	<i>Montrose, Pa.</i>	600 P.

FRESHMAN CLASS, 365

## SUMMARY

SENIORS	.	.	.	.	.	301
JUNIORS	.	.	.	.	.	295
SOPHOMORES	.	.	.	.	.	312
FRESHMEN	.	.	.	.	.	365
						<hr/>
REGULAR STUDENTS	.	.	.	.	.	1273
STUDENTS FROM OTHER DEPARTMENTS	.	.	.	.	.	286
						<hr/>
TOTAL UNDER INSTRUCTION	.	.	.	.	.	1559



# SHEFFIELD SCIENTIFIC SCHOOL

## GRADUATE STUDENTS

### WITH THEIR MAJOR SUBJECTS OF STUDY

Harry Leslie Agard, B.A. Wesleyan University 1904, M.A. Yale University 1908	<i>New Britain, Conn.</i>	206 F. Mathematics
William Talbot Allison, B.A. Toronto University 1899, M.A. 1900, B.D. Yale University 1901	<i>Middlefield, Conn.</i>	Middlefield English
Walter George Alpaugh, B.S. Tufts College 1908	<i>Willimantic, Conn.</i>	13 Lake pl. Botany and Mapping
Clarence Edward Andrews, B.A. Yale University 1906	<i>Norwalk, Conn.</i>	200 F. French
George Franklin Atwater, PH.B. Yale University 1908	<i>New Haven, Conn.</i>	1776 State st. Mechanical Engineering
George Alfred Baitzell, B.S. Central University of Iowa 1908	<i>Freemont, Ia.</i>	8 Prospect pl. Biology
Ida Barney, B.A. Smith College 1908	<i>New Haven, Conn.</i>	346 Whitney av. Mathematics
William George Baxter, B.S.A. Iowa State College 1908	<i>Galva, Ia.</i>	13 Lake pl. Botany and Drawing
Samuel John Berard, PH.B. Yale University 1908	<i>New Haven, Conn.</i>	813 Orange st. Mechanical Engineering
Frederick Howell Billard, B.A. Yale University 1896	<i>Meriden, Conn.</i>	423 Temple st. Mapping
Alice Frances Blood, B.S. Massachusetts Institute of Technology 1903	<i>Cambridge, Mass.</i>	37 Howe st. Biology and Physiol. Chemistry
Albert George Boesel, B.A. Ohio State University 1907	<i>New Bremen, O.</i>	126 College st. English
John Sidney Boman, B.A. University of Missouri 1902	<i>Columbia, Mo.</i>	1092 Yale P. O. Mathematics
Zelly Adam Bonoff, M.D. Yale University 1904	<i>New Haven, Conn.</i>	387 George st. Physiological Chemistry
Rowland Sherwood Bosworth, B.A. Yale University 1908	<i>Providence, R. I.</i>	83 C. Chemistry
Frederic Quintard Boyer, PH.B. Yale University 1908	<i>Norwalk, Conn.</i>	216 Orchard st. Mechanical Engineering
Normand Daggett Brainard, PH.B. Yale University 1906	<i>Branford, Conn.</i>	709 W. D. Civil Engineering
George Adams Bright, 2d, B.S. Dartmouth College 1908	<i>Washington, D. C.</i>	695 W. D. Botany and Drawing

Donald Bruce, B.A. Yale University 1906	Easthampton, Mass. 200 F. Botany and Mapping
Mable Electa Buland, B.A. University of Washington 1904, M.A. 1908	Castle Rock, Wash. 61 Trumbull st. English
Horace Thomas Burgess, B.A. Yale University 1906, M.A. 1907	Waynesville, O. 700 W. D. Mathematics
Norman Curtis Case, B.S. Highland College 1908	Highland, Kans. 90 Lake pl. Botany and Drawing
Ju Hsiang Chen, PH.B. Yale University 1908	Canton, China 909 Yale P. O. Civil Engineering
Frederick Waldemar Christensen, B.S. Kansas State Agricultural College 1900, M.S. Pennsylvania State College 1908	State College, Pa. 710 W. D. Physiology and Physiol. Chemistry
Howard Emerson Church, PH.B. Yale University 1908	Rockville, Conn. 57 Elm st. Sanitary Engineering
Guy Cory Cleveland, B.A. Yale University 1908	Orange, N. J. 53 Lake pl. Botany and Drawing
Hamilton Morel Coan, B.A. Princeton University 1907	New York City 17 Lake pl. Botany and Drawing
Harry Thomas Collings, B.A. Colgate University 1903, M.A. 1906	Hamilton, N. Y. 352 Crown st. German
Constantine Mugurditch Constantian, B.A. Central Turkey College 1902, PH.B. Yale University 1908	New Haven, Conn. 277 Crown st. Chemistry
Charlton Dows Cooksey, PH.B. Yale University 1905	New Haven, Conn. 284 Orange st. Physics
Oscar Henry Cooper, Jr., B.A. Yale University 1908	Abilene, Texas 35 High st. French
George Alexander Cromie Saskatoon, Saskatchewan	1179 Chapel st. Botany and Drawing
William Abraham Crowley, B.A. Kentucky University 1907, M.A. 1908	Lexington, Ky. 653 Yale P. O. French
Elizabeth Eudora Curtis, B.A. Vassar College 1905	New Haven, Conn. 61 Trumbull st. Mathematics
Paul Curts, B.A. Yale University 1905, M.A. 1907	Cheshire, Conn. 3 Hillhouse av. German
Edward Stiles Davey, B.A. Yale University 1908	Jersey City, N. J. 210 F. Botany and Drawing
Arthur Spencer Dayton, B.A. West Virginia University 1907, LL.B. 1908	Philippi, W. Va. 119 Wall st. English
Arthur Wayland Dox, B.S. University of Pennsylvania 1904, M.A. Columbia University 1905	Storrs, Conn. 708 W. D. Physiological Chemistry and Biology

- Ernest Griswold Dudley, B.A. *Stanford University, Cal.* 78 Lake pl.  
Leland Stanford Junior University 1908 Botany and Mapping
- Marion Graham Elkins, B.S. *Amesbury, Mass.* 568 Chapel st.  
Rhode Island College of Agric. and Mechanic Arts 1906 Botany
- Robie Mason Evans, B.A. *Fryeburg, Me.* 78 Lake pl.  
Dartmouth College 1906 Botany and Drawing
- Harold Fay, B.A. *Somerville, Mass.* 8 Prospect pl.  
Tufts College 1904 Botany and Drawing
- Jacob Plummer Feiser, B.A. *Woodsboro, Md.* 687 W. D.  
Roanoke College 1904 Mineralogy
- Edna Louise Ferry, B.A. *New Haven, Conn.* 24 Edgewood av.  
Mt. Holyoke College 1905 Physiological Chemistry
- Morris Seide Fine, PH.B. *New Haven, Conn.* 46 Elliott st.  
Yale University 1908 Physiological Chemistry and Biology
- Max Henry Foerster, B.A. *Sea Cliff, L. I., N. Y.* 8 Prospect pl.  
Oberrealschule zu Marburg 1908 Botany and Drawing
- Nathan Roscoe Francis, B.A. *Winchester, Tenn.* 156 Grove st.  
Yale University 1902, Electrical Engineering  
PH.B. Yale University 1908
- George Edward Gage, B.A. *Springfield, Mass.* 12 S. H.  
Clark University 1906, Bacteriology and Hygiene  
M.A. Yale University 1907
- Harold Parker Gilkey, B.A. *Richland, Mich.* 701 W. D.  
Harvard University 1908 Botany
- James Lippincott Goodwin, B.A. *New York City* 379 Temple st.  
Yale University 1905 Botany and Drawing
- Herbert Hartley Guest, PH.B. *New Haven, Conn.* 164 Edgewood av.  
Yale University 1908 Chemistry
- George Frederick Gundelfinger, PH.B. *Sewickley, Pa.* 124 Wall st.  
Yale University 1906 Mathematics
- Charles Walter Hall, B.A. *Stockville, Nebr.* 87 C.  
Doane College 1904, History  
B.A. Yale University 1907
- Lee LaPlace Harding, B.S. *Lyme, Conn.* 78 Lake pl.  
Rhode Island College 1906 Mathematics
- Samuel Clarke Harvey, PH.B. *Woodbury, Conn.* 120 York st.  
Yale University 1907 Physiology
- James Ovington Hazard, PH.B. *Westerly, R. I.* 90 Lake pl.  
Brown University 1908 Botany and Drawing
- B. Frank Heinzleman, B.F. *Fayetteville, Pa.* 8 Prospect pl.  
Pennsylvania State Forest Academy 1907 Botany and Drawing
- Ben Hershey, B.A. *Sterling, Ill.* 53 Lake pl.  
Williams College 1906 Botany and Mapping

Nathaniel Herz, PH.B. Yale University 1908	New Haven, Conn, 118 Edwards st. Mining Engineering
Warren Witherell Hilditch, PH.B. Yale University 1905	Thompsonville, Conn. 706 W. D. Physiological Chemistry
Lester Eugene Hitchcock, B.S. Coe College 1907	Cedar Rapids, Ia. 13 Lake pl. Botany and Drawing
Crosby Arthur Hoar, B.A. Dartmouth College 1908	West Acton, Mass. 78 Lake pl. Botany and Drawing
Hou Wei Ho, PH.B. Yale University 1908	Tientsin, China 114 High st. Civil Engineering
John Dean Holm, B.S. Carleton College 1906, M.S. 1907	Stillwater, Minn. 1032 Yale P. O. Mining Engineering
Davenport Hooker, B.A. Yale University 1908	Brooklyn, N. Y. 83 c. Biology
Thomas Hooker, B.A. Yale University 1908	Hartford, Conn. 78 Lake pl. Botany and Drawing
May Myrtelle Hoppen, B.A. Woman's College of Baltimore 1897	New Haven, Conn. 358 Winthrop av. English
McKay Sylvander Howard, B.A. Dartmouth College 1907	West Lebanon, N. H. 293 York st. Chemistry and Mineralogy
Yü Peng Hua, PH.B. Yale University 1908	Soochow, China 114 High st. Civil Engineering
David Duryea Irwin, PH.B. Yale University 1908	Boston, Mass. 133 College st. Mining Engineering
Nejib Hovhanness Jebejian, B.A. Central Turkey College 1903, PH.B. Yale University 1908	Aintab, Turkey 945 Yale P. O. Civil Engineering
Gerard Edward Jensen, B.A. Yale University 1907	Norwich, Conn. 1076 Chapel st. French
John Lewis Jones, PH.B. Lafayette College 1905	Bangor, Pa. 314 George st Mathematics
Alexander Corbin Judson, B.A. Pomona College 1907, M.A. Yale University 1908	El Cajon, Cal. 631 E. D. French
Israel Simon Kleiner, PH.B. Yale University 1906	New Haven, Conn. 39 Howe st. Physiological Chemistry
Frank Joseph Klingberg, B.A. University of Kansas 1907, M.A. 1908	Dillon, Kans. 22 Whalley av. History
Clarence Moore Knox, PH.B. Yale University 1907	Hartford, Conn. 685 W. D. Mechanical Engineering
John Kenyon Lamond, B.S. Rhode Island College of Agric. and Mech. Arts 1907, M.A. Yale University 1908	Usquepaugh, R. I. 103 Park st. Mathematics
Julius Ansgar Larsen, B.A. Yale University 1908	New Haven, Conn. 418 B. Mining Engineering

Leonard Merritt Liddle, B.S. Cornell College 1906	Walker, Ia.	162 S. C. L. Chemistry
William Harding Longley, B.A. Acadia University 1901, B.A. Yale University 1907, M.A. 1908	Paradise, N. S.	45 Park st. Biology
Allan Loudon, PH.B. Yale University 1908	Norwalk, Conn.	Norwalk Mining Engineering
George Blakeman Lovell, B.A. Yale University 1901, M.A. 1903	New Haven, Conn.	765 Whitney av. German
John Franklin Lyman, B.S. Massachusetts Agricultural College 1905, B.S. Boston University 1905	Amherst, Mass.	706 W. D. Physiological Chemistry
Tai Cheng Ma, PH.B. Yale University 1908	Tientsin, China	35 High st. Civil Engineering
David Ford McFarland, B.A. University of Kansas 1900, M.A. 1901, M.S. Yale University 1903	Lawrence, Kans.	20 Whalley av. Chemistry
Kenneth Gerard Mackenzie, PH.B. Yale University 1907	Westport, Conn.	162 S. C. L. Chemistry
Miner Sanford Macomber, B.A. Rhode Island State College of Agric. and Mech. Arts 1907	Hartford, Conn.	78 Lake pl. Chemistry
Raymond Eugene Marsh, B.S. Dartmouth College 1908	Westport, N. H.	715 W. D. Botany and Mapping
Frederick Ramsay Mason, B.S. Rutgers College 1905	Bound Brook, N. J.	13 Lake pl. Botany and Mapping
Alfred Arundel May, B.A. University of Wooster 1900, M.A. Yale University 1907	Wooster, O.	713 W. D. French
Elizabeth Merrill, B.A. University of Cincinnati 1900, M.A. 1905	Cincinnati, O.	75 Howe st. English
Edwin Cyrus Miller, B.A. Yale University 1907	Baltimore, Md.	565 P. Botany
Clifford Joseph Monahan, PH.B. Yale University 1907	New Haven, Conn.	136 Dwight st. Chemistry
Willis Munro, B.A. Harvard University 1896, LL.B. 1899	Buffalo, N. Y.	1151 Chapel st. Mapping
Victor Caryl Myers, B.A. Wesleyan University 1905, M.A. 1907	Buskirk Bridge, N. Y.	213 F. Physiological Chemistry
Robert Wilden Neeser, B.A. Yale University 1906	New York City	1076 Chapel st. History
Sherman Brown Neff, B.A. Yale University 1908	Ridgeway, Mo.	1011 Yale P. O. English
George Elwood Nichols, B.A. Yale University 1904	New Haven, Conn.	569 P. Botany

Levi Fatzinger Noble, B.A. Yale University 1905	Auburn, N. Y. Geology and Paleontology	90 Wall st.
Willis C. Noble, Jr., PH.B. Yale University 1906	Montclair, N. J. Mechanical Engineering	148 Grove st.
Frank Browning Notestein, PH.B. Wooster University 1908	Wooster, O. Botany and Drawing	716 W. D.
Kenzaburo Okamoto, B.A. Keiogijiku University 1907	Tokyo, Japan English	144 Dwight st.
Theophilus Schickel Painter, B.A. Roanoke College 1908	Salem, Va. Mineralogy	140 W.
Dana Parkinson, B.A. Dartmouth College 1908	Waltham, Mass. Botany and Mapping	715 W. D.
Julia Bayles Paton, B.A. Smith College 1900	Hartford, Conn. Physiology	74 Lake pl.
Clarence Curtiss Perry, PH.B. Yale University 1904	New Britain, Conn. Physics	121 Maple st.
Frederick Williams Pierce, PH.B. Baker University 1906	Baldwin, Kans. German	373 Crown st.
Joseph Ezekiel Pogue, Jr., B.A. University of North Carolina 1906, M.S. 1907	Raleigh, N. C. Geology	1305 Chapel st.
Joseph Chappell Rayworth, B.A. Acadia University 1903, B.A. Yale University 1906, M.A. 1907	Amherst, N. S. Mathematics	3 B. M. H.
Amy Louise Reed, B.A. Vassar College 1892	New Rochelle, N. Y. French	500 Whalley av.
Chester Albert Reeds, B.S. University of Oklahoma 1905, M.S. Yale University 1907	Norman, Okla. Paleontology	A.
William Cumming Rose, B.S. Davidson College 1907	Laurinburg, N. C. Physiological Chemistry	1305 Chapel st.
Harry Rosenbaum, PH.B. Yale University 1908	New Haven, Conn. Civil Engineering	68 Park st.
Joseph Rosenbaum, PH.B. Yale University 1907	New Haven, Conn. Mathematics and Civil Engineering	68 Park st.
Samuel Barnell Rosenbaum, PH.B. Yale University 1907	New Haven, Conn. Civil Engineering	68 Park st.
Thomas Edmund Savage, B.A. Iowa Wesleyan University 1895, B.S. State University of Iowa 1897, M.S. 1898	Urbana, Ill. Paleontology	A.
Marvin McRae Scarbrough, B.A. University of Oregon 1902 M.A. Yale University 1905, M.D. 1907	Eugene, Oregon Physiological Chemistry	120 York st.
Howard Sheafer Schall, PH.B. Yale University 1907	New Haven, Conn. Sanitary Engineering	167 Livingston st.

Samuel Ray Scholes, B.A. Ripon College 1905	Green Lake, Wisc.	S. C. L. Chemistry
John Richie Schultz, B.A. Christian University 1905, M.A. 1906	Canton, Mo.	17 Pearl st. English
William Eben Schultz, B.A. Christian University 1906, M.A. 1907	Canton, Mo.	17 Pearl st. English
Howard Arnold Seckerson, B.A. Wesleyan University 1907, M.A. Yale University 1908	Middletown, Conn.	Middletown English
William Edward Selin, B.A. Yale University 1898, M.A. 1900	Cynthiana, Ky.	671 W. D. English
Charles Augustus Smith, B.A. University of Kansas 1908	New Haven, Conn.	122 Dwight st. History.
Henry DeWitt Smith, PH.B. Yale University 1908	New London, Conn.	379 Temple st. Mining Engineering
William Norwood Sparhawk, B.A. Yale University 1908	West Swansey, N. H.	202 F. Botany and Drawing
Henry Winchester Starkweather, PH.B. Yale University 1906	New Haven, Conn.	693 Elm st. Mechanical Engineering
Benjamin Franklin Stelter, B.A. University of Kansas 1905, M.A. 1908	Delphos, Kans.	22 Whalley av. French
Irving Gay Stetson, B.A. Harvard University 1907	Bangor, Me.	8 Prospect pl. Botany and Mapping
Neil Everett Stevens, B.A. Bates College 1908	Auburn, Me.	152 Temple st. Botany
Nizzô Suruda, B.L. Bethany College (W. Va.) 1906	Kishu, Japan	1169 Chapel st. English
Mary Davies Swartz, B.L. Denison University 1901, B.S. Columbia University 1906	Wooster, O.	74 Lake pl. Physiol. Chemistry and Physiology
Ludwig Emil Swenson, B.A. Bethany College (Kans.) 1905	Lindsborg, Kans.	276 Elm st. German
George Gifford Symes, PH.B. Yale University 1905	New York City	126 High st. Sanitary Engineering
Arthur Irving Taft, B.A. Yale University 1905	Melrose, Mass.	58 Grove st. English
Charles Dunning Thompson, PH.B. Yale University 1908	Honesdale, Pa.	133 College st. Mining Engineering
Charles Augustus Tournier, B.A. Yale University 1908	Auburn, N. Y.	214 Dixwell av. Mathematics
William Henry Twenhofel, B.A. National Normal University (Lebanon, O.) 1904, B.A. Yale University 1908	Kenton, Ky.	122 Derby av. Paleontology
Laurence Vail Updegraff, B.A. Yale University 1908	Chicago, Ill.	35 High st. French

Albert Ogden Vorse, B.S. Bucknell University 1905	Lewisburg, Pa. 8 Prospect pl. Botany and Mapping
Mary Shore Walker, B.A. University of Missouri 1903, M.A. 1904	Columbia, Mo. 13 Park st. Mathematics
Robert Sinclair Wallace, B.A. Macalester College 1908	St. Paul, Minn. 716 W. D. Botany and Drawing
Edgar Fowler White, B.A. Dartmouth College 1908	Danvers, Mass. 53 Lake pl. Botany and Drawing
*John Alan White, B.A. Yale University 1907	Walton, N. Y. Mathematics
Edwin Blake Whiting, PH.B. Yale University 1907	New Haven, Conn. 77 Mansfield st. Economic Geology
William Sheldon Whittlesey, B.A. Yale University 1907	New Haven, Conn. 135 Wall st. English and French
Walter Keene Wildes, B.A. Bowdoin College 1904	Little Falls, N. J. 701 W. D. Botany and Mapping
Robert Day Williams, B.S. Pomona College 1903, M.A. Yale University 1907	Redlands, Cal. 589 Yale P. O. Biology
Howard Benjamin Wilson, PH.B. Yale University 1908	Norwalk, Conn. 561 Washington av. West Haven Mechanical Engineering
Thomas Goddard Wright, B.A. Yale University 1907, M.A. 1908	Phelps, N. Y. 209 F. English
William Josiah Wright, B.S. Acadia University 1907, B.A. Yale University 1908	Bear River, N. S. 120 York st. Mineralogy and Botany
Helen Louise Young, B.A. Cornell University 1900	East Palmyra, N. Y. 133 Howe st. History

## GRADUATE STUDENTS, 153

[Students marked "A" are candidates for the degree of Master of Science, Mechanical Engineer or Civil Engineer, who, having had one year of resident graduate study, are now pursuing courses of study in absence under the direction of the Faculty.]

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\* Deceased.



# SHEFFIELD SCIENTIFIC SCHOOL

## SENIOR CLASS, 1909

William Jacques Adams	<i>Palo Alto, Cal.</i>	184 v-s.
Joseph Arcadius Allard, Jr.	<i>Stratford, Conn.</i>	Stratford
George Milton Allerton, Jr.	<i>Naugatuck, Conn.</i>	163 v-s.
Clement Gould Amory	<i>New York City</i>	111 v-s.
Joseph Gerrish Ayers, Jr.	<i>Port Jervis, N. Y.</i>	122 Wall st.
John Leonard Bagg	<i>Holyoke, Mass.</i>	167 v-s.
John Mayhew Baldwin	<i>Torrington, Conn.</i>	124 Wall st.
Leslie Avery Banker	<i>Cranford, N. J.</i>	111 Grove st.
Kenneth Tuttle Barnaby	<i>New York City</i>	163 v-s.
William Hoyt Bartlett	<i>Peoria, Ariz.</i>	78 Whalley av.
Edgar Leidy Beaty	<i>Warren, Pa.</i>	111 Grove st.
Fritz William Beinecke	<i>Oscarwana-on-Hudson, N. Y.</i>	82 Wall st.
Clinton Percival Bernard	<i>New York City</i>	108 High st.
John Fedor Bernhardt	<i>Jamaica, N. Y.</i>	126 Wall st.
Oliver Frederick Bishop	<i>New Haven, Conn.</i>	174 Grand av.
Roland Stevens Boardman	<i>Bransford, Conn.</i>	391 Temple st.
Carleton Ward Bonfils	<i>Jamaica, N. Y.</i>	178 v-s.
Seymour Mersick Bradley	<i>New Haven, Conn.</i>	184 v-s.
Delos Judson Bristol, Jr.	<i>New Haven, Conn.</i>	519 George st.
George Farnam Brown	<i>Philadelphia, Pa.</i>	133 College st.
Frank Gains Burke, Jr.	<i>New York City</i>	111 Grove st.
Isaac Sidney Burnett	<i>Seattle, Wash.</i>	126 Wall st.
Gerald Burnham	<i>Chicago, Ill.</i>	96 Wall st.
Julian Penfield Burr	<i>Westport, Conn.</i>	174 v-s.
Lambert William Butler	<i>North Haven, Conn.</i>	North Haven
George Goodrich Byrnes	<i>Boston, Mass.</i>	181 v-s.
Robert Hart Cary	<i>North Platte, Nebr.</i>	937 Yale P. O.
James Dunbar Cass	<i>New York City</i>	133 College st.
William Pomeroy Champney, Jr.	<i>Cleveland, O.</i>	118 College st.
George Mottu Chandlee	<i>Baltimore, Md.</i>	185 v-s.
Tatsung Chang	<i>Kashing, Chekiang, China</i>	9 Library st.
William Octave Chanute	<i>Denver, Colo.</i>	17 Hillhouse av.
Joseph Morris Chapin	<i>Norfolk, Conn.</i>	677 W. D.
Walter William Cheney, Jr.	<i>Manlius, N. Y.</i>	96 Wall st.
Clarence Chester Childs	<i>Fremont, O.</i>	127 v-s.
Norman King Clarke	<i>New Haven, Conn.</i>	114 College st.
Clifford Stuart Condon	<i>Oswego, Kans.</i>	111 Grove st.
Edward Henry Croll	<i>Buffalo, N. Y.</i>	176 v-s.
Charles Canfield Cunningham	<i>Washington, Ia.</i>	50 v.
Edward Livingston Wells Curtis	<i>Southport, Conn.</i>	133 Wall st.

Robert Edward Dakin	Gaylordsville, Conn.	677 W. D.
John Grant Daley	Omaha, Nebr.	191 V-S.
William McClure Dandy, Jr.	Chicago, Ill.	178 V-S.
Frank Barker Dangler	Cleveland, O.	111 Grove st.
Fred Harold Daniels	Worcester, Mass.	70 Trumbull st.
Harold Frederick DeLacour	Stratford, Conn.	141 V-S.
William Byers Denton	Denver, Colo.	105 V-S.
Alonzo Nelson Dewey	Springfield, Mass.	131 Grove st.
Elihu Elias Dickerman	North Haven, Conn.	104 V-S.
Alan Carson Dixon	Chicago, Ill.	111 V-S.
Charles Henry Doolittle	Meriden, Conn.	140 V-S.
William Dorenbaum	Hartford, Conn.	Hartford
Delano Fuller Woodcliffe Douglass	Worcester, Mass.	70 Trumbull st.
Charles Raymond Downs	New Haven, Conn.	813 Quinpiac av.
Luke Cantwell Doyle	Worcester, Mass.	124 Prospect st.
Emanuel Louis Dreyfus	Santa Barbara, Cal.	463 FW.
Charles Hutchinson Dunning	Auburn, N. Y.	96 Wall st.
Richard Cunningham Eggleston	Philadelphia, Pa.	17 Lake pl.
Lloyd Searing Emory	Hempstead, L. I., N. Y.	106 V-S.
Leo Englander	New Haven, Conn.	34 Sylvan av.
William Farson	Oak Park, Ill.	131 Grove st.
Grover Cleveland Fels	Lowell, Mass.	131 Grove st.
Thomas Fox	Wyoming, O.	102 V-S.
William Llewellyn Fox	New Haven, Conn.	B. M. H.
Clarence Jean Fraissinet	New York City	107 V-S.
Samuel Judah Frankfurt	New Haven, Conn.	27 Silver st.
Charles Gillette Frisbie	Hartford, Conn.	131 Grove st.
John Wallace Fuller	Columbus, O.	411 Temple st.
Frank William Gallagher	New Haven, Conn.	1081 Chapel st.
William Hallowell Gallaher	Santa Barbara, Cal.	191 V-S.
Colin Gardner, Jr.	Middletown, O.	133 College st.
George Edward Gillespie	Newburgh, N. Y.	70 Trumbull st.
Maurice Hope Givens, B.S.	Pittsburg, Ky.	700 W. D.
National Normal University 1907		
Ralph Edward Goodwin, B.A.	East Hartford, Conn.	295 York st.
Yale University 1908		
Dabney Grant	Kansas City, Mo.	108 V-S.
Charles Wesley Griggs	New Haven, Conn.	178 Lawrence st.
Samuel Jackson Hammitt	Apollo, Pa.	106 V-S.
Henry Morris Hartmann	Morris, N. Y.	133 Wall st.
Allen Graves Haskell	Newton, Mass.	107 V-S.
John Terrill Hawley	Hawleyville, Conn.	666 W. D.
Andrew King Haxstun	Fort Edward, N. Y.	128 Wall st.
Arthur Grant Heidrich	Peoria, Ill.	131 Grove st.

Walter Clarke Hemingway	<i>New Haven, Conn.</i>	25 Hotchkiss st.
Louis John Henes	<i>New York City</i>	126 High st.
Earle Chapman Herrick	<i>Norwich, Conn.</i>	74 C.
Carleton Rufus Hewitt	<i>Torrington, Conn.</i>	124 Wall st.
Erastus Hodges	<i>Torrington, Conn.</i>	124 Wall st.
Lucien Ball Horton	<i>Binghamton, N. Y.</i>	96 Wall st.
Edgar Billings Howard	<i>New Orleans, La.</i>	133 College st.
Leonard Vernon Howe	<i>Minneapolis, Minn.</i>	96 Wall st.
William Henry Hubbard, Jr.	<i>Auburn, N. Y.</i>	131 Grove st.
George Franklin Huff, Jr.	<i>Greensburg, Pa.</i>	315 York st.
Harold Hunsiker	<i>London, England</i>	96 Wall st.
Frank Carley Hunt	<i>Hot Springs, S. D.</i>	131 Grove st.
Harold Larned Hutchins	<i>New Haven, Conn.</i>	234 Division st.
Birger Lawrence Johnson	<i>Chicago, Ill.</i>	96 Wall st.
Loring Kenneth Jordan	<i>St. Joseph, Mo.</i>	108 High st.
James Stanley Joyce	<i>Chicago, Ill.</i>	186 v-s.
Pao-vung Jui	<i>Shanghai, China</i>	56 Grove st.
George Hughes Kaercher	<i>Pottsville, Pa.</i>	149 v-s.
Charles Emmanuel Kaufmann	<i>Sioux Falls, So. Dak.</i>	70 Trumbull st.
Paul Independence Keeler	<i>Tunkhannock, Pa.</i>	171 v-s.
Forest Bowns Kellogg	<i>Chicago, Ill.</i>	171 v-s.
Richard Albert Kenworthy, Jr.	<i>Poughkeepsie, N. Y.</i>	96 Wall st.
Frederick Harold Kenyon	<i>Hartford, Conn.</i>	82 Wall st.
John Kerr	<i>New York City</i>	162 v-s.
George Russell King	<i>Elmhurst, Ill.</i>	207 Bishop st.
Robert Snyder King	<i>Dayton, O.</i>	131 Grove st.
Stephen Vincent Klem	<i>New Haven, Conn.</i>	15 Lake pl.
Joseph Whitmore Knapp	<i>Newburyport, Mass.</i>	160 v-s.
Robert Weir LaMontagne	<i>New York City</i>	17 Hillhouse av.
William Sheldon Lawson, Jr.	<i>New York City</i>	133 College st.
James Luther Leeper, Jr.	<i>Summit, N. J.</i>	110 Wall st.
Frederic Bradley Lewis	<i>Stratford, Conn.</i>	Stratford
Henry Leroy Lewis	<i>Stratford, Conn.</i>	141 v-s.
Robert Curtis Lewis	<i>Stratford, Conn.</i>	Stratford
John Leavens Lilley	<i>Waterbury, Conn.</i>	161 v-s.
Charles Edwin Lockhart	<i>Greenwich, Conn.</i>	402 Crown st.
Thomas Thomson Logie	<i>New Haven, Conn.</i>	B. M. H.
Cassius Lopez de Victoria	<i>New York City</i>	315 York st.
John William Lowe, Jr.	<i>Roxbury, Mass.</i>	114 v-s.
Henry Hall Lyman	<i>Middlefield, Conn.</i>	148 v-s.
Thomas Lynn	<i>Camden, N. J.</i>	96 Wall st.
Burtis Barton McCarn	<i>Chicago, Ill.</i>	391 Temple st.
Samuel Rowley MacDonald	<i>Yonkers, N. Y.</i>	122 Wall st.
Edward Michael McDonough	<i>New Haven, Conn.</i>	38 Hallock st.

Drury Albert McMillen	Alton, Ill.	17 Hillhouse av.
William Bennett Malone	Denver, Colo.	149 v-s.
Richard Leach Mann	Buffalo, N. Y.	17 Hillhouse av.
Mervyn Mason Manning	Groton, Mass.	128 High st.
William Henry Mead	Hinsdale, N. H.	51 Trumbull st.
Frederick Abraham Merlis	New Haven, Conn.	132 Hill st.
Haines Rennyson Merritt	East Aurora, N. Y.	180 v-s.
Robert Ira Merwin	New Haven, Conn.	68 Clark st.
Charles Ferdinand Mills	Savannah, Ga.	133 College st.
August Charles Mitke, B.A.	Freeland, Pa.	210 F.
Yale University 1908		
Vernon Starr Morehouse	Stratford, Conn.	Stratford
Raymond Burton Munson	Stratford, Conn.	Stratford
Homer Chidsey Neal, B.A.	Southington, Conn.	202 F.
Yale University 1908		
Richard VanWyck Negley	San Antonio, Texas	17 Hillhouse av.
Horace Albert Newbury	New London, Conn.	98 York sq.
William Monypeny Newsom	Columbus, O.	163 v-s.
Axel Hjahnar Nicander	New Haven, Conn.	49 Winthrop av.
Martin William Nill	Rockville, Conn.	391 Temple st.
Alexander Nimick	Pittsburg, Pa.	160 v-s.
Francis Strickland Page	Brooklyn, N. Y.	133 College st.
Frank Lansing Grinnell Page	New York City	139 v-s.
James Parker, 3d	Harrisburg, Pa.	223 Orange st.
Ralph Rand Parish	Meriden, Conn.	177 Norton st.
Wendell Lawrence Paul	Montreal, Canada	59 Wall st.
Harley Taylor Peck	Newtown, Conn.	114 v-s.
Earl Stanley Peirce	Frankfort, Me.	96 Wall st.
Arthur Paul Peterson	Ansonia, Conn.	Ansonia
Norman Philip Pierce	Honey Grove, Texas	111 Grove st.
Dwight Warren Pond	Terryville, Conn.	124 Wall st.
Raymond Augustus Pond	Unionville, Conn.	124 Wall st.
James Poole	New Haven, Conn.	19 Silver st.
Paul Ragnet Preston	Davenport, Ia.	17 Hillhouse av.
William Eversole Prosser	St. Louis, Mo.	147 v-s.
Jonathan Sanford Randle	Redding, Conn.	39 Lynwood pl.
John Reimann	New Haven, Conn.	113 Lawrence st.
George Fullerton Renton, Jr.	Oahu, H. I.	107 v-s.
Edward Carrington Mayo Richards	New York City	164 v-s.
Robert Annan Riley	Warwick, N. Y.	149 v-s.
George Willey Rittenour	Piketon, O.	181 v-s.
Douglass Raymond Robbins	Middletown, O.	133 College st.
Walter Gregory Rodiger	Chicago, Ill.	124 Prospect st.
Walter Francis Roesler	Great Neck, L. I., N. Y.	162 v-s.

Frederick James Root  
 Roswell John Roth  
 Henry Walter Routenberg  
 Donald Gardner Russell  
 John Francis Sagarino  
 Arthur John St. Lawrence  
 Donald Stuart Sammis  
 James Edward Schall, Jr.  
 Alfred Bryant Seeley  
 Roupen Nazareth Serabian  
 Ray Hamilton Skelton  
 Bryan Hooker Smith  
 Herbert Scott Snead  
 Karl Conrad Stadtmiller  
 Alfred Russell Starr, Jr.  
 Howard Voorheis Stephens  
 Frederick Archibald Stewart  
 John Thomas Stoddart  
 Jeffrey Alexander Stone  
 Russell Wheeler Strong  
 Thomas Douglas Taggart  
 Benjamin Thaw, Jr.  
 Joseph Dio Thomas  
 Ralph Emerson Thompson  
 Glenn Wood Traer, Jr.  
 Talbot Cyrus Walker  
 Thomas Hay Walker  
 John Bryant Wallace, Jr.  
 Raphael Walter  
 James Farley Walton  
 Warren Leland Ward  
 Howard Thomas Ware  
 Lee Gilbert Warren  
 William Joseph Waters  
 Theodore Stout Watson  
 Lawrence Watts  
 David Tolner Weinerman  
 John Herbert Weiss, Jr.  
 Frederic Hart Wells  
 Henry Myers Wheaton  
 Warren Corning Wick  
 Richard Ernst Wiles  
 Edmund Farrington Williams  
 Myron Henry Wilson, Jr.

*New Haven, Conn.* 65 Foote st.  
*Watertown, N. Y.* 133 College st.  
*Keene, N. H.* 124 Wall st.  
*Wallingford, Conn.* 167 v-s.  
*Hartford, Conn.* 74 Howe st.  
*West Haven, Conn.* 82 Wall st.  
*Stratford, Conn.* Stratford  
*New Haven, Conn.* 167 Livingston st.  
*New Haven, Conn.* 147 Blatchley av.  
*Erjendjan, Armenia* 152 Grove st.  
*Brooklyn, N. Y.* 144 v-s.  
*Montclair, N. J.* 8 Prospect pl.  
*Montclair, N. J.* 128 Wall st.  
*Meriden, Conn.* 82 Wall st.  
*New York City* 108 v-s.  
*Cincinnati, O.* 96 Wall st.  
*Ansonia, Conn.* 391 Temple st.  
*Buffalo, N. Y.* 167 v-s.  
*Danbury, Conn.* 175 v-s.  
*Setauket, L. I., N. Y.* 239 Whitney av.  
*Indianapolis, Ind.* 96 Wall st.  
*New York City* 165 v-s.  
*Pittsburg, Pa.* 82 Wall st.  
*Rockford, Ill.* 133 College st.  
*Chicago, Ill.* 96 Wall st.  
*San Francisco, Cal.* 187 v-s.  
*Allegheny, Pa.* 131 Grove st.  
*Ansonia, Conn.* 96 Wall st.  
*Baltimore, Md.* 120 College st.  
*Pittsburg, Pa.* 17 Hillhouse av.  
*Port Chester, N. Y.* 86 Wall st.  
*Covington, Ky.* 70 Trumbull st.  
*Piqua, O.* 104 v-s.  
*Derby, Conn.* 391 Temple st.  
*New York City.* 131 Grove st.  
*Manila, P. I.* 102 v-s.  
*Hartford, Conn.* Hartford  
*Chicago, Ill.* 118 College st.  
*Amityville, L. I., N. Y.* 108 v-s.  
*Philadelphia, Pa.* 131 Grove st.  
*Cleveland, O.* 131 Grove st.  
*Kansas City, Mo.* 180 v-s.  
*Syracuse, N. Y.* 104 v-s.  
*Cleveland, O.* 111 Grove st.

Robert Prince Winton	<i>New Haven, Conn.</i>	136 Canner st.
Eric Fisher Wood	<i>New York City</i>	143 V-S.
Harold Spry Woods	<i>Portsmouth, N. H.</i>	666 W. D.
Clarence Aldro Wright	<i>Washington, D. C.</i>	160 V-S.
George LeRoy Young	<i>Orient, L. I., N. Y.</i>	119 Wall st.
Zai-Ziang Zee	<i>Shanghai, China</i>	168 V-S.

SENIORS, 218

## JUNIOR CLASS, 1910

Lloyd Seward Allen	<i>Auburn, N. Y.</i>	110 Wall st.
Mitchill Allen	<i>Brookline, Mass.</i>	124 Wall st.
Frank Gorman Almquist	<i>New Rochelle, N. Y.</i>	171 v-s.
Elliot Landon Alvord	<i>Winsted, Conn.</i>	101 v-s.
Joseph Alfred Ambler	<i>Danbury, Conn.</i>	9 Library st.
Hamlin Foster Andrus	<i>Yonkers, N. Y.</i>	17 Hillhouse av.
Edward Percy Apgar	<i>Jersey City, N. J.</i>	170 v-s.
Harold Ralph Bacon	<i>Derby, Conn.</i>	152 v-s.
Collier Whittemore Baird	<i>South Orange, N. J.</i>	70 Trumbull st.
Frank Albert Baker	<i>Zanesville, O.</i>	70 Trumbull st.
Gustave Breaux Ballard	<i>Louisville, Ky.</i>	17 Hillhouse av.
Samuel Gunn Barker	<i>Scranton, Pa.</i>	133 v-s.
Edward Lewis Barlow	<i>Bridgeport, Conn.</i>	Bridgeport
Bradley White Bartholomew	<i>Springfield, Mass.</i>	55 Prospect st.
Edmund Benton Bartlett	<i>New London, Conn.</i>	133 College st.
Lindell Theodore Bates	<i>New York City</i>	17 Hillhouse av.
Howard Wood Beardsley	<i>Hartford, Conn.</i>	104 Wall st.
Robert Oglesby Beardsley	<i>Middletown, O.</i>	133 v-s.
Charles Elliott Beaumont	<i>New Haven, Conn.</i>	391 Howard av.
Harold Clark Beebe	<i>New Haven, Conn.</i>	89 Gregory st.
Robert Bengis	<i>New Haven, Conn.</i>	142 Chestnut st.
Edward Whittemore Benner	<i>Englewood, N. J.</i>	110 v-s.
Jacob Berman	<i>Hartford, Conn.</i>	57 Prospect st.
Pierrepoint Bigelow	<i>New Haven, Conn.</i>	17 Hillhouse av.
Howard Bird	<i>New Haven, Conn.</i>	244 Orchard st.
Malcolm Havens Bissell	<i>New York City</i>	190 v-s.
Richard Haus Donai Boerker	<i>Brooklyn, N. Y.</i>	128 Wall st.
Benjamin Noble Booth	<i>New Haven, Conn.</i>	660 George st.
Henry Franklin Bradley	<i>Salt Lake City, Utah</i>	117 v-s.
Howard Stanford Brainerd	<i>Mt. Vernon, N. Y.</i>	124 Prospect st.
Jacob Reuben Brenner	<i>New Haven, Conn.</i>	113 Bradley st.
William Henry Brevoort, Jr.	<i>New York City</i>	111 Grove st.
William Edwards Brewster	<i>Iron Mountain, Mich.</i>	103 v-s.
Frank Eugene Bridgett, B.A.	<i>Wallingford, Conn.</i>	Wallingford
Yale University 1908		
Jarvis Adams Britton	<i>Cleveland, O.</i>	148 Grove st.
William Almet Broadhead	<i>Jamestown, N. Y.</i>	119 Wall st.
Joseph Edward Brody	<i>Perth Amboy, N. J.</i>	21 William st.
Reed McClellan Brown	<i>Germantown, O.</i>	188 v-s.

Sydney Freeman Brown	Reading, Mass.	103 v-s.
Carl Reed Brownell	Worcester, Mass.	113 v-s.
Charles Allen Burleson	Jewett City, Conn.	132 Wall st.
Fred Enos Burnside	Seattle, Wash.	111 Grove st.
Bruce Eldon Cameron	New York City	19 Whitney av.
William Allen Camp	Bridgeport, Conn.	Bridgeport
George Henry Campbell	Great Falls, Mont.	70 Trumbull st.
Louis James Campbell	Youngstown, O.	480 Winthrop av.
Andrew Haley Candee	Ft. Dodge, Ia.	106 Elm st., West Haven
Raymond Bishop Canfield	New Haven, Conn.	314 Crown st.
Harold Montford Cathcart	Newburgh, N. Y.	70 Trumbull st.
Robert Rensselaer Chamberlain	New Haven, Conn.	49 Park st.
Lowell Mead Chapin	Chicago, Ill.	131 Grove st.
Alfred Floss Cherry	Colony, Okla.	31 Trumbull st.
Joseph Du Barry Childs	Pittsburg, Pa.	17 Hillhouse av.
Arthur Amos Clapp	St. Paul, Minn.	178 v-s.
Hale Austin Clark	So. Norwalk, Conn.	142 Dwight st.
Thomas Chalkley Coffin	Nampa, Idaho	133 College st.
George Robb Collins	Chicago, Ill.	17 Hillhouse av.
Maurice Diehl Cooper	Buffalo, N. Y.	57 Elm st.
George Almon Coy	Milford, Conn.	Milford
Edwin Dillingham Crowell, Jr.	East Dennis, Mass.	48 Lake pl.
Loftus Brookman Cuddy	Cleveland, O.	96 Wall st.
Nathan Alfred Curtiss	Wallingford, Conn.	57 Grove st.
Harry Elliot Daggett	New Haven, Conn.	240 View st.
Charles Joseph Daly	New Haven, Conn.	8 Mechanic st.
Walter Julius Damtoft	Bridgeport, Conn.	684 W. D.
William Frederick Dexheimer, Jr.	New Haven, Conn.	183 Dixwell av.
Claude Mc Conaha Dibble	New Haven, Conn.	37 Fairmont av.
John Calvert Donaldson	Philadelphia, Pa.	101 v-s.
James Donegan	New Haven, Conn.	22 Ward st.
Forbes Franklin Dougherty	Buffalo, N. Y.	172 v-s.
Walter Cooley Douglas	New York City	17 Hillhouse av.
Hudson Downs Dravo	Pittsburg, Pa.	145 v-s.
Charles Doyle Drynan	Sewickley, Pa.	70 Trumbull st.
Elbridge Griswold Dyer	Cleveland, O.	57 Elm st.
William Blake Earnshaw	Dayton, O.	131 Grove st.
William Wallace Eastman	Minneapolis, Minn.	148 Grove st.
Charles Dudley Eldred	Joliet, Ill.	185 v-s.
Rufus Dodd Woods Ewing	Enfield, Mass.	96 Wall st.
Frederick Charles Fearing	New York City	111 Grove st.
Carl Ferguson	Logansport, Ind.	115 v-s.
Frederick Clarkstone Fletcher	Ansonia, Conn.	Ansonia



Philip Mansfield Freeman	Plainville, Conn.	70 Trumbull st.
Walter Clifford French	Derby, Conn.	333 York st.
William Shepard French	Saratoga Springs, N. Y.	111 Grove st.
Myron Elmer Fuller	Summit, N. J.	96 Wall st.
Dwight Lyman Fullerton	Chillicothe, O.	119 Wall st.
Edwin Baker Gager, Jr.	Derby, Conn.	333 York st.
Edwin Gibson Gaynor	Bridgeport, Conn.	333 York st.
George Charles Gerner	New Haven, Conn.	12 Nicoll st.
Bennett Edward Glazer	New Haven, Conn.	250 George st.
Elsworth Helbert Goldschmidt	New York City	124 Wall st.
Henry Karl Goldstein	Hartford, Conn.	57 Prospect st.
Donald Goodrich	Minneapolis, Minn.	146 v-s.
Charles Goodwin	Brooklyn, N. Y.	17 Hillhouse av.
Sheppard Bliss Gordy	Derby, Conn.	333 York st.
Joseph Marion Goss	Centerville, Ia.	110 v-s.
William McKinnie Green	Cleveland, O.	148 Grove st.
Harry Paul Greenough	Missoula, Mont.	148 Grove st.
Theodore Morris Greer	Denver, Colo.	115 v-s.
Samuel Adams Griswold	Wethersfield, Conn.	120 College st.
Jesse Grube	Easton, Pa.	128 High st.
Kenneth Stone Hall	Portland, Oregon	126 High st.
Richard Nash Hall	Topeka, Kans.	124 Prospect st.
William Storrs Hoyt Hamilton	New Haven, Conn.	28 Norton st.
John Hays Hammond, Jr.	New York City	148 Grove st.
George Stone Hardenbergh	St. Paul, Minn.	124 v-s.
James Ely Harding, Jr.	Lyme, Conn.	137 v-s.
William Allen Harris, Jr.	Springfield, Mass.	152 v-s.
Berthold Francis Hastings	Bridgeport, Conn.	Bridgeport
Harold Wetmore Hatch	New Britain, Conn.	153 v-s.
Arthur Joseph Hill	Meriden, Conn.	Meriden
Earl Alton Hinkley	Stony Creek, Conn.	Stony Creek
Harold Peckham Hobart	Cleveland, O.	173 v-s.
Henry Homer Hobbs	New York City	17 Hillhouse av.
Joseph DuBois Holloway	Wheeling, W. Va.	148 Grove st.
Arthur Downing Holmes	New Haven, Conn.	32 Gilbert st.
Albert William Honywill, Jr.	New Haven, Conn.	135 v-s.
Bayard Hopkins	Ridgewood, N. J.	111 Grove st.
Henry Stanley Horn	East Orange, N. J.	142 v-s.
John Crompton Horsfall	New Britain, Conn.	82 Wall st.
Alvin Pike Howard	New Orleans, La.	133 College st.
Thomas Franklin Hoxsey	Paterson, N. J.	142 v-s.
Preston Southworth Hoyt	Danbury, Conn.	70 Trumbull st.
Yao-chang Henry Hsin	Shanghai, China	114 High st.
John Giddings Hughes	Bridgeport, Conn.	Bridgeport

Henry Hull	<i>Savannah, Ga.</i>	96 Wall st.
William Henry Hunt, Jr.	<i>Helena, Mont.</i>	161 v-s.
Carroll Solomon Hurlbutt	<i>Gales Ferry, Conn.</i>	37 College st.
James Richard Hyde	<i>Brooklyn, N. Y.</i>	148 Grove st.
Frank Burch Ijams	<i>Terre Haute, Ind.</i>	17 Hillhouse av.
James Arthur Ingalls	<i>Brooklyn, N. Y.</i>	1371 Chapel st.
Hamilton Ingersoll	<i>Islip, L. I., N. Y.</i>	133 Wall st.
Gilbert Nelson Jerome	<i>New Haven, Conn.</i>	24 Gilbert av.
Oswald Jimenis	<i>New York City</i>	124 Prospect st.
Alfred Murphy Jones	<i>New Haven, Conn.</i>	367 Howard av.
Frank Rowland Jones	<i>Brooklyn, N. Y.</i>	112 v-s.
George Cole Jones	<i>Waverly, O.</i>	127 v-s.
Percy Wonson Jones	<i>New Haven, Conn.</i>	147 Dwight st.
Charles Daniel Hanford Kellogg, Jr.	<i>Bridgeport, Conn.</i>	Bridgeport
Albert Kerr	<i>Newport, R. I.</i>	627 E. D.
William Geoffrey Kimball	<i>New York City</i>	151 v-s.
Louis Solomon Kirjasoff	<i>Waterbury, Conn.</i>	409 B.
Harry Joseph Klarman	<i>New Haven, Conn.</i>	279 Lombard st.
Alfred Carl Kluepfel	<i>New York City</i>	126 v-s.
Bedross Lahag Koshkarian, B.A.	<i>Harpoon, Armenia</i>	7 Library st.
Euphrates College 1903		
Carl Alexis Krah	<i>New Haven, Conn.</i>	315 York st.
Dwight Morgan Kyle	<i>Danbury, Conn.</i>	692 W. D.
Edward Allyn Lambert	<i>Bridgeport, Conn.</i>	124 Prospect st.
William Boice Langford	<i>Chicago, Ill.</i>	152 v-s.
Alexander Laughlin, Jr.	<i>Sewickley, Pa.</i>	145 v-s.
John Lautz	<i>Hamilton, N. Y.</i>	126 Wall st.
Oscar Cobb Lautz	<i>Buffalo, N. Y.</i>	169 v-s.
John Bailey Lawrence	<i>Mastic, L. I., N. Y.</i>	124 Wall st.
Joseph Allen Lee	<i>Chicago, Ill.</i>	82 Wall st.
Charles Grandison Lewis	<i>New Haven, Conn.</i>	205 Whitney av.
Joseph Warren Lewis	<i>Philadelphia, Pa.</i>	133 College st.
Maxfield Crosby Lewis	<i>New Haven, Conn.</i>	391 Winthrop av.
Edward Harold Liebman	<i>New Haven, Conn.</i>	208 Willow st.
Theodore Lilley	<i>Waterbury, Conn.</i>	133 College st.
Howard Hancock Logan	<i>Chicago, Ill.</i>	109 v-s.
Nelson Johnson Lomax	<i>St. Joseph, Mo.</i>	114 High st.
Russell Lord	<i>Chicago, Ill.</i>	110 Wall st.
Cecil Earl Lovejoy	<i>Kansas City, Mo.</i>	166 v-s.
Albert Porter McCarthy	<i>Oswego, N. Y.</i>	119 Wall st.
Richard McCarthy, B.S.	<i>Madelia, Minn.</i>	114 High st.
Carleton College 1908		
Daniel Joseph McCormick, Jr.	<i>Norwich, Conn.</i>	55 Prospect st.
Otis Edwin McIntyre	<i>Colorado Springs, Colo.</i>	111 Grove st.

Allen Fletcher Marsh	Chicago, Ill.	146 v-s.
Bayard Martin	Buffalo, N. Y.	125 v-s.
Stirling Martin	Brooklyn, N. Y.	17 Hillhouse av.
Thomas Wade Mather	Miami, Fla.	363 WH.
Hugh M. Matheson	Huntington, L. I., N. Y.	124 Prospect st.
Charles E. Maxwell, Jr.	Chicago, Ill.	109 v-s.
Albert Younglove Meriam	East Cleveland, O.	129 v-s.
Asa Suydam Merrell	Flemington, N. J.	176 v-s.
Arthur Royden Merritt	Grandview, N. Y.	17 Hillhouse av.
John Clifford Merwin	New Haven, Conn.	25 Tryon st.
John Edgar Meyer	Montclair, N. J.	103 v-s.
Victor John Milkowski	Schenectady, N. Y.	722 W. D.
Charles George Mills	Bradford, Pa.	124 Prospect st.
Wilson Waddingham Mills	East Las Vegas, N. M.	112 v-s.
Abner Wheeler Mitchell	Washington, Conn.	135 v-s.
Leroy Bradley Mitchell	Southbury, Conn.	110 v-s.
Spencer Frank Moore	Schenectady, N. Y.	430 FW.
Walter Ronald Morse	Waterbury, Conn.	189 v-s.
William Bryan Moses	Somerville, Mass.	119 v-s.
Spencer Latham Murfey	East Cleveland, O.	111 Grove st.
Joseph Bradley Murray	Brooklyn, N. Y.	170 v-s.
Oliver Murray	Davenport, Ia.	150 v-s.
Theodore Charles Naedele	Hartford, Conn.	120 College st.
Clyde Ross Newell	Orange, Conn.	Orange
Sih-zung Nie	Shanghai, China	862 Howard av.
St. John's College, Shanghai, 1901		
Patrick Brett O'Sullivan, B.A.	Derby, Conn.	136 W.
Yale University 1908		
Rutherford Page	New York City	189 v-s.
Samuel Palkin	Stamford, Conn.	19 Gold st.
Elwell Palmer	Brooklyn, N. Y.	118 v-s.
Dwight Boyce Pangburn	New Haven, Conn.	731 Elm st.
Andrew Giles Parker, Jr.	New Haven, Conn.	652 Dixwell av.
George Sigafos Patterson	White Plains, N. Y.	133 College st.
Sanford Benham Perkins	Torrington, Conn.	125 Dwight st.
Leon Jay Phillips	New Milford, Conn.	53 Prospect st.
Joseph Pierpont, Jr.	North Haven, Conn.	53 Prospect st.
Orlando Bronson Potter	Ossining, N. Y.	122 v-s.
Donald Bishop Prentice	Hartford, Conn.	110 Wall st.
Jansen Hasbrock Preston	Kingston, N. Y.	120 v-s.
Thomas Harold Prosser	Brooklyn, N. Y.	133 College st.
Jack Adincourt Rainier	New York City	17 Hillhouse av.
William Johns Ralston	New York City	86 Wall st.

Harry Brooks Rathbun	Noank, Conn.	132 Wall st.
Homer Reed, Jr.	Kansas City, Mo.	131 v-s.
Harold Wily Reeder	Detroit, Mich.	96 Wall st.
Frank Anthony Rend	Chicago, Ill.	86 Wall st.
Earle Hay Reynolds	Chicago, Ill.	96 Wall st.
Clyde Albert Risdon	Kane, Pa.	17 Hillhouse av.
Archer Egbert Roberts	Mt. Kisco, N. Y.	117 Wall st.
Caryl Roberts	Philadelphia, Pa.	111 Grove st.
Philip Rogers	Greenfield, Mass.	110 Wall st.
Leo David Rothensies	Walton, N. Y.	685 w-d.
William Beardslee Rudd	Media, Pa.	96 Wall st.
Raymond Warren Rush	Oil City, Pa.	110 Wall st.
Harry Saltzstein	Milwaukee, Wisc.	140 v-s.
Oscar Adolph Sandquist	New Haven, Conn.	153 St. John st.
Selden Bradley Sanford	Brooklyn, N. Y.	150 v-s.
Truman Frank Sanford	Unionville, Conn.	51 Trumbull st.
Charles Adam Sattig	New Haven, Conn.	65 Foster st.
Albert Wilcox Savage	Meriden, Conn.	153 v-s.
Joseph Alexander Scarlett, Jr.	Cincinnati, O.	124 Prospect st.
Fred William Schaefer	Springfield, O.	59 Prospect st.
Herman George Scharmann	Brooklyn, N. Y.	315 York st.
Ernest Carl Schnuck	Ansonia, Conn.	125 Dwight st.
Harold Moore Seitz	Kansas City, Mo.	17 Hillhouse av.
Abraham Morris Shapiro	Hartford, Conn.	35 Broad st.
Norman Arthur Shepard	New Haven, Conn.	159 Blatchley av.
George Kendall Shields	Colorado Springs, Colo.	174 v-s.
George Webb Shillingford	Clearfield, Pa.	82 Wall st.
Sidney Elbert Short	New York City	70 Trumbull st.
Jacob Shulansky	Hartford, Conn.	863 Yale P. O.
Benjamin Harrison Smith	West Haven, Conn.	West Haven
Harrison Braxton Smith	Cincinnati, O.	133 College st.
Oliver Ledlie Smith	Pittsburg, Pa.	148 Grove st.
Philip Augustus Smith	New Haven, Conn.	123 Carmel st.
William Penn Snyder, Jr.	Sewickley, Pa.	133 College st.
Burt Kellogg Spencer	Suffield, Conn.	665 w. d.
Roger Sherman Sperry	Waterbury, Conn.	82 Wall st.
Louis Roemmer Stadtmiller	Stamford, Conn.	119 Wall st.
Rudolph Stanley-Brown	Cold Spring Harbor, L.I., N. Y.	124 Prospect st.
Burt Stearns	Denver, Colo.	17 Hillhouse av.
George Albert Stetson	New Haven, Conn.	414 B.
Irving Davis Stone	Troy, N. Y.	132 v-s.
Norman Luman Stone	Springfield, Mass.	130 Wall st.
Richard Lawton Strobridge	Stamford, Conn.	104 Wall st.

James Breden Stuart	<i>New York City</i>	124 Prospect st.
Henry Holt Sturges	<i>Shelton, Conn.</i>	698 W. D.
Arthur Darling Sykes	<i>Rockville, Conn.</i>	130 V-S.
Arthur Henry Tasker	<i>Clinton, Mass.</i>	55 Prospect st.
Donald Forrester Taylor	<i>Morristown, N. J.</i>	148 Grove st.
Walter Willard Taylor	<i>Chicago, Ill.</i>	148 Grove st.
Lawrence Aldrich Teasdale	<i>New Haven, Conn.</i>	121 Nicoll st.
Joe Crisler Terrill	<i>Dallas, Texas</i>	177 V-S.
Walter Scott Thatcher	<i>Waverly, N. Y.</i>	153 V-S.
Joseph Paul Thomas	<i>Denver, Colo.</i>	699 W. D.
Harold Wilson Thompson	<i>New Haven, Conn.</i>	719 Orange st.
Landon Ketchum Thorne	<i>Babylon, L. I., N. Y.</i>	111 Grove st.
Harold Cother Tiebout	<i>Brooklyn, N. Y.</i>	119 Wall st.
Norman Edwin Titus	<i>New York City</i>	110 Wall st.
Frederick William Toerner, B.A.	<i>New York City</i>	44 Ashmun st.
College of the City of New York 1902		
Andrew Edward Bernard Tommers	<i>New Haven, Conn.</i>	103 Thompson st.
John Montgomery Toucey	<i>Garrison, N. Y.</i>	124 Prospect st.
Charles Solberg Traer	<i>Chicago, Ill.</i>	150 V-S.
Robert Treat	<i>Bridgewater, Conn.</i>	714 W. D.
William Abbey Turner	<i>Housatonic, Mass.</i>	120 V-S.
Warren William Upson	<i>Kensington, Conn.</i>	70 Trumbull st.
Dudley Blanchard Valentine	<i>Oakland, Cal.</i>	111 Grove st.
William Thomas VanAlstyne	<i>Albany, N. Y.</i>	183 V-S.
Morris Roderick Volck	<i>New York City</i>	82 Wall st.
Robert Strong Wadsworth	<i>Warehouse Point, Conn.</i>	279 Crown st.
Stanley Byron Waite	<i>Yonkers, N. Y.</i>	126 V-S.
Winfred Clark Warner	<i>New Haven, Conn.</i>	10 Clinton av.
Charles Harlan Watzek	<i>Davenport, Ia.</i>	102 V-S.
Chester Louis Weil	<i>New Haven, Conn.</i>	352 Orange st.
George Gregg Welch	<i>Dover, N. H.</i>	134 V-S.
Joseph Mahon Wells	<i>Newell, W. Va.</i>	126 V-S.
Hubert Knapp Whitmer	<i>Goshen, Ind.</i>	124 Prospect st.
Russell Whittlesey	<i>Pittsfield, Mass.</i>	111 Grove st.
Wilbur Elliott Wilder, Jr.	<i>Auburn, N. Y.</i>	96 Wall st.
Albert Nathaniel Williams	<i>Denver, Colo.</i>	177 V-S.
Samuel Guy Williams	<i>Cochranville, Pa.</i>	391 Temple st.
Carroll Dana Winslow	<i>New York City</i>	148 Grove st.
Francis Winslow, Jr.	<i>Hartford, Conn.</i>	120 College st.
Wing Dan Wong	<i>Ichang, China</i>	136 V-S.
St. John's College, Shanghai, 1907		
Edward Collins Wood	<i>Kansas City, Mo.</i>	166 V-S.

Fletcher Hegeman Wood  
William Janeway Wood, Jr.  
Cecil George Young  
Charles Sidney Young  
Nathan Young  
Abraham Zimmerman

*Mt. Vernon, N. Y.* 124 Prospect st.  
*Westport, Conn.* 180 L.  
*Norwich, Conn.* 37 College st.  
*Johnstown, N. Y.* Derby, Conn.  
*Kansas City, Mo.* 82 Wall st.  
*Bridgeport, Conn.* Bridgeport

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## FRESHMAN CLASS, 1911

Henry Lawrence Achilles	<i>Rochester, N. Y.</i>	10 B. M. H.
John Howard Johnston Adams	<i>New Haven, Conn.</i>	544 Whitney av.
Kenneth Leland Allen	<i>Cleveland, O.</i>	150 Grove st.
Thomas Humprey Cushing Allen	<i>Cincinnati, O.</i>	117 Wall st.
Shreve Maclaren Archer	<i>Minneapolis, Minn.</i>	70 Trumbull st.
Harry Asher	<i>New Haven, Conn.</i>	59 Grove st.
Thomas Barwis Hagstoz Askin	<i>Chicago, Ill.</i>	117 Wall st.
James Arthur Atwood, Jr.	<i>Waukegan, Conn.</i>	125 High st.
Nathan Aymen	<i>New Haven, Conn.</i>	635 Congress av.
Roger Terry Bacon	<i>New Haven, Conn.</i>	351 Orange st.
Robert Johnston Badham	<i>Birmingham, Ala.</i>	128 Wall st.
Edward Payson Bailey, Jr.	<i>Chicago, Ill.</i>	133 Wall st.
Dudley Mills Baker	<i>New Haven, Conn.</i>	111 Grove st.
Francis Howland Baker	<i>New Haven, Conn.</i>	137 Wall st.
William Chapman Baker	<i>Morristown, N. J.</i>	421 Temple st.
Alan Averal Bakewell	<i>Pittsburg, Pa.</i>	124 Wall st.
Harold Alling Baldwin	<i>Derby, Conn.</i>	124 Wall st.
Stanley Crittenden Ball	<i>Shelburne Falls, Mass.</i>	344 Elm st.
Walter Vernon Balmford	<i>New York City</i>	113 Wall st.
John Edward Barbey	<i>Reading, Pa.</i>	88 Wall st.
William Richard Barbour	<i>Ridgway, Pa.</i>	114 High st.
Albert McDevitt Barr	<i>Pittsburg, Pa.</i>	120 High st.
Paul Mather Barrows	<i>Greenwich, Conn.</i>	120 College st.
Arthur Francis Bassett	<i>Clintonville, Conn.</i>	177 v-s.
William Clarence Bassett	<i>East River, Conn.</i>	278 Blake st.
Harry Bausher	<i>Montclair, N. J.</i>	397 Temple st.
William Bayne, 3d	<i>South Orange, N. J.</i>	125 High st.
Hart Jarvis Beach	<i>Hartford, Conn.</i>	90 Wall st.
Harold Edward Beckman	<i>Cincinnati, O.</i>	132 Wall st.
Irving Goodspeed Beebe	<i>New Haven, Conn.</i>	635 George st.
Zachariah Belcher, 5th	<i>Newark, N. J.</i>	82 Wall st.
Virgil H. Belford	<i>Seattle, Wash.</i>	387 Temple st.
William Gabriel Berman	<i>Hartford, Conn.</i>	Hartford
Clifford Allen Betts	<i>Norwalk, Conn.</i>	132 Wall st.
Alfred Morrell Bidwell	<i>Jersey City, N. J.</i>	130 Wall st.
William Franklin Bishop, Jr.	<i>Norwalk, Conn.</i>	130 Wall st.
Milton Elvin Blanchard, Jr.	<i>Newark, N. J.</i>	112 v-s.
Chandler Wells Bleistein	<i>Buffalo, N. Y.</i>	133 College st.
Rufus Frank Blount	<i>Wabash, Ind.</i>	125 High st.
Raymond William Bolton	<i>Wallingford, Conn.</i>	Wallingford
Robert Palen Bonnie	<i>Louisville, Ky.</i>	132 Wall st.

George Galt Bourne	Oakdale, L. I., N. Y.	120 High st.
Raymond Brower Bowen	Buffalo, N. Y.	117 Wall st.
George McNear Bowles	Oakland, Cal.	400 Temple st.
Alfred Cass Bowman, B.A.	Norwood, O.	188 v-s.
Twin Valley College 1908		
Harold Bowne	New York City	395 Temple st.
Walter Bowne, Jr.	New York City	395 Temple st.
Donald Stuart Boynton	Highland Park, Ill.	133 College st.
Addison Ballard Bradley	Chicago, Ill.	130 Wall st.
George Frank Bradstreet	Bridgeport, Conn.	Bridgeport
George Brady	Bethel, Conn.	314 George st.
Raymond Winship Bristol	Brooklyn, N. Y.	7 B. M. H.
Walter Edwin Brooke	Salt Lake City, Utah	721 W. D.
Allerton Frank Brooks	Meriden, Conn.	Meriden
Louie Merritt Brooks	Chester, Conn.	110 Wall st.
Robert Larkin Brooks	Arlington, Mass.	113 Wall st.
Springer Harbaugh Brooks	St. Paul, Minn.	150 Grove st.
Alan Hendry Brown	Madison, N. J.	333 York st.
Donald Insko Buchanan	Buffalo, N. Y.	59 Grove st.
Charles Luman Buckingham, Jr.	Haverstraw, N. Y.	427 Temple st.
DeWitt Mesick Bull	Pawlet, Vt.	104 Wall st.
Harold Saxton Burr	Springfield, Mass.	610 E. D.
Howard Courtney Burr	New York City	90 Wall st.
William French Burrows, Jr.	Chicago, Ill.	88 Wall st.
Wooster Canfield	Seymour, Conn.	Seymour
Edwin Leon Carpenter	Dawson, N. M.	110 Wall st.
Joseph Archibald Carson	Braintree, Mass.	1 B. M. H.
Robert Cartmell	New York City	397 Temple st.
William Harrison Caruthers	Norwich, Conn.	132 Wall st.
Everett Erastus Case	Windsor, Conn.	231 F.
Herbert Hoyt Case	New York City	262 York st.
Raymond Bailey Case	Norwich, Conn.	299 York st.
Samuel Winship Case	Norwich, Conn.	299 York st.
Daniel Babst Cellar	Sewickley, Pa.	126 Wall st.
Charles Grover Chamberlin	New Haven, Conn.	132 St. John st.
Franklin Jerome Champlin	New Haven, Conn.	77 Woolsey st.
Raymond Frederick Chidsey	New Haven, Conn.	241 Exchange st.
George Alkin Chisholm	North Attleboro, Mass.	128 Wall st.
Arsen Nishan Chorbajian, B.A.	New Haven, Conn.	11 Lake pl.
St. Paul's College, Tarsus, 1906		
Archibald Clarke	Youngstown, O.	119 Wall st.
John Thomas Timothy Clinton	Ballardvale, Mass.	262 York st.
Charles Francis Clise	Seattle, Wash.	117 Wall st.
Gerald Cameron Clough	Ansonia, Conn.	311 York st.



Arthur Lowell Coggins	<i>Igerna, Cal.</i>	55 Prospect st.
Saul Cohen	<i>New Haven, Conn.</i>	129 Dixwell av.
Viott Myers Cole	<i>East Orange, N. J.</i>	113 v-s.
Benjamin Fitch Collender	<i>Stamford, Conn.</i>	104 Wall st.
Karl Wilhelm Collin	<i>Altoona, Pa.</i>	315 York st.
Glen Moore Comstock	<i>Denver, Colo.</i>	8 Trumbull st.
Harmon John Cook	<i>Torrington, Conn.</i>	126 Wall st.
Harold Thomas Cooper	<i>New Haven, Conn.</i>	1287 Townsend av.
Calvert Byron Cottrell, 3d	<i>Westerly, R. I.</i>	152 Grove st.
Harold David Cowan	<i>Buffalo, N. Y.</i>	377 Temple st.
Albert Bernard Cox	<i>Maysville, Ky.</i>	333 York st.
Stephen Rowan Crawford	<i>Philadelphia, Pa.</i>	110 Wall st.
William Crosby	<i>Tacoma, Wash.</i>	295 York st.
John Adam Crowley	<i>Ansonia, Conn.</i>	128 Wall st.
Raymond Burnside Culver	<i>New Haven, Conn.</i>	410 Congress av.
Cloyd Cummins	<i>Vienna, N. J.</i>	718 W. D.
Lester Cummins	<i>Vienna, N. J.</i>	718 W. D.
Eliot Daggett	<i>Minneapolis, Minn.</i>	3 Hillhouse av.
Minott Augur Davis	<i>Whitneyville, Conn.</i>	Whitneyville
Lee Garnett Day	<i>New York City</i>	110 Wall st.
Arthur Bliss Dayton	<i>Naugatuck, Conn.</i>	150 Grove st.
Charles Shepard DeForest	<i>New Haven, Conn.</i>	335 Orange st.
Laurens McGregor Demarest	<i>Newark, N. J.</i>	110 Wall st.
George Stebbins Dickinson	<i>Irvington-on-Hudson, N. Y.</i>	117 Wall st.
Harold Ruddell Donaldson	<i>Buffalo, N. Y.</i>	124 Wall st.
Bernard Wayne Drouillard	<i>Middletown, O.</i>	425 Temple st.
Clayton DuBosque	<i>South Orange, N. J.</i>	110 Wall st.
Joseph Bennett Dunbaugh	<i>Mt. Vernon, N. Y.</i>	135 Wall st.
Charles Henry Dunlap	<i>New Haven, Conn.</i>	333 York st.
Douglas Wood Dunn	<i>Dongan Hills, S. I., N. Y.</i>	150 Grove st.
John Nicholas Eckle	<i>West Haven, Conn.</i>	West Haven
Jacob Edward Eckstein	<i>Hartford, Conn.</i>	184 Livingston st.
Edward Edwards	<i>Milford, O.</i>	57 Prospect st.
Arthur Dana Elliot	<i>Yonkers, N. Y.</i>	124 Prospect st.
Henry Melvin Elliot	<i>New Haven, Conn.</i>	206 Orchard st.
Matthew Griswold Ely	<i>New York City</i>	170 v-s.
Deane Mann Evans	<i>Pittsburg, Pa.</i>	120 High st.
Paul Francis Fagan	<i>Meriden, Conn.</i>	Meriden
Roy Emerson Farnham	<i>New Haven, Conn.</i>	238 Grand av.
Frank Shepley Fellows	<i>New York City</i>	110 Wall st.
Charles Buford Fennell	<i>Kansas City, Mo.</i>	5 B. M. H.
Chauncey Rosman Fenton	<i>Woonsocket, R. I.</i>	55 Prospect st.
James Edward Finnessy	<i>Olean, N. Y.</i>	115 Wall st.
Edward Fisher	<i>New York City</i>	133 College st.

Reuben Fenton Fisher  
 Frederic Palmer Fiske  
 Joseph Patrick Fleming  
 Francis Edward Foley, B.A.

Holy Cross College 1908

Albert Emerson Foster  
 Reginald Humphrey Fullerton  
 William Ayers Galbraith  
 Arthur Gardner  
 Thomas Henry Garrett, Jr.  
 John Taylor Gause, 2d  
 Walter McIntosh Geddes  
 Walter Geer, Jr.  
 Raymond Bryant Gerard  
 Dean McGrew Gilfillan  
 Robert Adrian Gillern  
 Stanhope Scott Goddard  
 Paul Goldberg  
 Samuel Goldschmidt  
 Guy Howard Goodman  
 Raymond Willis Gowdy  
 Frederick David Grave, Jr.  
 Carlos Stockwell Greeley  
 Sidney Nathan Greenberg  
 Edmond Alfred Guggenheim  
 Robert Kenneth Gustafson  
 Kingsley VanAlstyne Gwyer  
 George Francis Hadley  
 Earle Hartwell Hale  
 Ralph Wetmore Halsey  
 Forrester Lundsteen Hammer  
 Ralph McKenzie Hammer  
 John Hollister Hancock  
 Carl Harrington Hanna  
 Charles Hansen  
 William Bradford Harwood  
 Abraham Louis Hasbrouck  
 Elliott Sheldon Hastings  
 Harold Ernest Hastings  
 Willard Haugh  
 Loomis Havemeyer  
 Frederick Bronson Hawley  
 Hoyt Elmore Hayes  
 John Raymond Joseph Hayes, B.A.

Mt. St. Mary's College 1907

Jamestown, N. Y. 387 Temple st.  
 Brooklyn, N. Y. 110 Wall st.  
 Wallingford, Conn. Wallingford  
 New Haven, Conn. 284 Grand av.

Wakefield, Mass. 650 E. D.  
 Chillicothe, O. 387 Temple st.  
 Erie, Pa. 423 Temple st.  
 Washington, D. C. 133 College st.  
 St. Louis, Mo. 110 Wall st.  
 Wilmington, Del. 105 College st.  
 Newark, N. J. 57 Elm st.  
 New York City 427 Temple st.  
 South Norwalk, Conn. 68 Lake pl.  
 Ironton, O. 117 Wall st.  
 New Haven, Conn. 34 Trumbull st.  
 Pittsburg, Pa. 120 College st.  
 Bridgeport, Conn. Bridgeport  
 South Norwalk, Conn. 539 Orange st.  
 New Haven, Conn. 325 Alden av.  
 Thompsonville, Conn. 175 V-S.  
 Whitneyville, Conn. Whitneyville  
 St. Louis, Mo. 126 High st.  
 Hartford, Conn. 132 Wall st.  
 New York City 391 Temple st.  
 New Haven, Conn. 29 Richard st.  
 New York City 379 Temple st.  
 Hope Valley, R. I. 35 High st.  
 Gildersleeve, Conn. 8 Trumbull st.  
 South Orange, N. J. 117 Wall st.  
 Branford, Conn. 117 Wall st.  
 Brookline, Mass. 3 Hillhouse av.  
 Salt Lake City, Utah 391 Temple st.  
 Cleveland, O. 400 Temple st.  
 New Haven, Conn. 272 Winthrop av.  
 Great Neck, L. I., N. Y. 405 Temple st.  
 Kingston, N. Y. 409 Temple st.  
 Suffield, Conn. 122 Wall st.  
 Suffield, Conn. 122 Wall st.  
 Derby, Conn. 333 York st.  
 Hartford, Conn. 110 Wall st.  
 Bridgeport, Conn. 132 Wall st.  
 Cleveland, O. 150 Grove st.  
 Zanesville, O. 120 High st.

John Ryan Hayes	Waterbury, Conn.	55 Prospect st.
Henry John Hegel	New Haven, Conn.	200 York st.
Carl Constantine Heisen, Jr.	Chicago, Ill.	96 Wall st.
Wilmer DuPont Hemming	Colorado Springs, Colo.	120 High st.
John Phillips Henderson	Sharon, Pa.	124 Prospect st.
Robert Black Herbert	Greensburg, Pa.	132 v-s.
James Frazer Hillman	Pittsburg, Pa.	120 College st.
Edward Buckingham Hine	Colorado Springs, Colo.	117 Wall st.
John Lawless Hogan, Jr.	New York City	333 York st.
Clarence Gordon Holbrook	New Haven, Conn.	180 Winchester av.
Carlos Sanford Holcomb	Torrington, Conn.	39 Lake pl.
Willard Porter Hovey	Kansas City, Mo.	17 Hillhouse av.
William Francis Howe, Jr.	Brookline, Mass.	3 Hillhouse av.
Daniel Raymond Hull	Torrington, Conn.	39 Lake pl.
Harry Phipps Hunter	Oakmont, Pa.	120 College st.
Robert Edward Hunter	Chicago, Ill.	109 v-s.
John Avery Ingersoll	New York City	120 High st.
Andrew Jerome Jackson	Waterbury, Conn.	413 Temple st.
Stanley Russell Jelliffe	Brooklyn, N. Y.	419 Temple st.
David Johnson	Seattle, Wash.	113 Wall st.
Douglas Andrews Johnston	New Britain, Conn.	120 College st.
Catesby ap Lucian Jones	Savannah, Ga.	395 Temple st.
Malcolm Fuller Jones	Jamestown, N. Y.	3 Hillhouse av.
Warren Fox Kaynor	Sanborn, Ia.	117 Wall st.
William Henry Keefe, Jr.	Derby, Conn.	159 Elm st.
Giles Bernard Keeney	Kensington, Conn.	140 v-s.
Chester Munson Kerr	New Rochelle, N. Y.	148 Grove st.
Holloway Kilborn	New Haven, Conn.	55 Dwight st.
Percy DeWitt Kincaid	Manila, P. I.	117 Wall st.
William Frank Kinney	Waterbury, Conn.	925 Howard av.
Nathan Hale Kirschman	Atlantic City, N. J.	53 Prospect st.
Erle Oatman Kistler	Denver, Colo.	411 Temple st.
Simon Bretzfelder Kleiner	New Haven, Conn.	39 Howe st.
Henry Martyn Knight	Sharon, Conn.	120 College st.
DeWitt Knox	Salt Lake City, Utah	120 High st.
George Granby Knox	Salt Lake City, Utah	120 High st.
Otto Frederick Kraetschmar	Rockville, Conn.	714 W. D.
Veste Cornelius Kylberg	New Haven, Conn.	315 Crown st.
William Alfred LaMontagne	Far Rockaway, L. I., N. Y.	389 Temple st.
Ammi Wright Lancashire	Alma, Mich.	130 Wall st.
Perin Langdon, Jr.	Cincinnati, O.	148 Grove st.
Charles Bridgen Lansing	Colorado Springs, Colo.	119 Wall st.
Robert Lanyon	St. Louis, Mo.	119 Wall st.

Robert Morrow Larimore	<i>New York City</i>	124 Prospect st.
Louis Barnett Lear	<i>New Haven, Conn.</i>	119 Oak st.
James Tiffany Leary	<i>Naugatuck, Conn.</i>	109 York st.
Harry George Legg	<i>Minneapolis, Minn.</i>	123 v-s.
Frederick Lincoln Lehr, Jr.	<i>New Haven, Conn.</i>	328 Winthrop av.
Benjamin Leopold	<i>Waterbury, Conn.</i>	18 Howe st.
Carl Starker Leopold	<i>Burlington, Ia.</i>	119 Wall st.
Edward Armin Limberg	<i>St Louis, Mo.</i>	110 Wall st.
Albert Curtis Lockwood	<i>Seymour, Conn.</i>	126 Wall st.
George Casper Logan	<i>Ridgway, Pa.</i>	114 High st.
Louis Frederic Loutrel	<i>South Orange, N. J.</i>	117 Wall st.
Albert Sheley Low	<i>Danbury, Conn.</i>	692 w. D.
Toy Kay Lowe	<i>Oakland, Cal.</i>	35 High st.
Arthur Franklin Lynch	<i>Rowayton, Conn.</i>	126 Wall st.
William Joseph Lynch	<i>West Haven, Conn.</i>	West Haven
Carl Melby Lynge	<i>Bridgeport, Conn.</i>	Bridgeport
David Walton Mabee	<i>Saratoga Springs, N. Y.</i>	120 High st.
Edward William McDonnell	<i>Chicago, Ill.</i>	3 Hillhouse av.
Charles King McHarg, Jr.	<i>Pueblo, Colo.</i>	413 Temple st.
John McIntosh	<i>Auburn, N. Y.</i>	117 Wall st.
Roy Armstrong MacKinnon	<i>Buffalo, N. Y.</i>	124 Wall st.
John McMahan	<i>Derby, Conn.</i>	159 Elm st.
Frederick Lee McNally	<i>Chicago, Ill.</i>	17 Hillhouse av.
Donald Meredith McNeale	<i>Washington, D. C.</i>	14 B. M. H.
Floyd Willcox McRae, Jr.	<i>Atlanta, Ga.</i>	114 High st.
James William Maitland	<i>New York City</i>	110 Wall st.
DeForest Manice	<i>New York City</i>	122 Wall st.
Walter Roy Manny	<i>Larchmont, N. Y.</i>	B. M. H.
Henry Childs Marcy	<i>Buffalo, N. Y.</i>	110 Wall st.
Harold Emmons Marsh	<i>Branford, Conn.</i>	Branford
LeRoy Martin	<i>Brooklyn, N. Y.</i>	113 Wall st.
Chutaro Mashima	<i>Nigorikawa, Niigataken, Japan</i>	119 Wall st.
Miles Arthur Matthews	<i>New Haven, Conn.</i>	264 Lenox st.
Ralph Henry Matthiessen	<i>Irvington-on-Hudson, N. Y.</i>	117 Wall st.
Nathan Mears	<i>Evanston, Ill.</i>	120 High st.
Lawrence Ackerman Meeker	<i>Chicago, Ill.</i>	110 Wall st.
Joseph Sidney Mehr	<i>Bradley Beach, N. J.</i>	8 Trumbull st.
Joseph Parker Mendel	<i>Wellsburg, W. Va.</i>	425 Temple st.
Scudder Mersman	<i>St. Louis, Mo.</i>	90 Wall st.
Horace Beach Merwin	<i>Bridgeport, Conn.</i>	117 Wall st.
Clifford Frederick Messinger	<i>New Haven, Conn.</i>	82 Whalley av.
Richard Kirby Miles	<i>Lakeville, Conn.</i>	111 Grove st.
Alvin Ford Miller	<i>Chicago, Ill.</i>	389 Temple st.

Charles Frederick Miller	<i>New York City</i>	122 Wall st.
Clement Woodnutt Miller	<i>Wilmington, Del.</i>	105 College st.
Pierpont Langdon Minor	<i>Greenwich, Conn.</i>	137 Dwight st.
John Philip Mitchell	<i>Cleveland, O.</i>	148 Grove st.
Charles Tallmadge Moffatt	<i>Stamford, N. Y.</i>	8 B. M. H.
James Rardon Montgomery	<i>Chicago, Ill.</i>	3 Hillhouse av.
Charles Kindness Moore	<i>Evanston, Ill.</i>	119 Wall st.
Gardner Babcock Moore	<i>St. Paul, Minn.</i>	119 Wall st.
Robert Cecil Moran	<i>Hartford, Conn.</i>	293 York st.
Roger Hoyt Moses	<i>Washington, D. C.</i>	104 Wall st.
George William Munson, Jr.	<i>Milford, Conn.</i>	Milford
Howard Franklin Murchie	<i>South Orange, N. J.</i>	333 York st.
Clarence Aspinwall Murfey	<i>East Cleveland, O.</i>	110 Wall st.
Thomas Edward Murray, Jr.	<i>Brooklyn, N. Y.</i>	393 Temple st.
William Naumburg, Jr.	<i>Yonkers, N. Y.</i>	130 Wall st.
John Burbank Nichols	<i>Haverhill, Mass.</i>	3 Hillhouse av.
Edward Hodges Norton	<i>Torrington, Conn.</i>	293 York st.
William Bartholomew O'Brien	<i>Wallingford, Conn.</i>	Wallingford
Arthur Edward Ogilvy	<i>Santa Barbara, Cal.</i>	128 Wall st.
Valentine Earl O'Grady	<i>Buffalo, N. Y.</i>	55 Prospect st.
Innis O'Rourke	<i>New York City</i>	110 Wall st.
Carl Gottfried Ortmyer	<i>Chicago, Ill.</i>	96 Wall st.
Eugene Osborn	<i>Montclair, N. J.</i>	17 Hillhouse av.
Amos Townsend Pagter	<i>New Haven, Conn.</i>	30 Baldwin st.
James Wallace Paramore	<i>St. Louis, Mo.</i>	88 Wall st.
Edward Leroy Parkhurst	<i>New Haven, Conn.</i>	1471 Chapel st.
Theodore Samuel Parsons	<i>Troy, Pa.</i>	128 High st.
Andrew Robert Pastorius	<i>West Haven, Conn.</i>	West Haven.
Robert Denny Peebles	<i>Los Angeles, Cal.</i>	119 Wall st.
Joseph Greer Peppard, Jr.	<i>Kansas City, Mo.</i>	120 College st.
Irwin Malcolm Phelps	<i>New Orleans, La.</i>	32 Trumbull st.
Allen Frederick Pierce	<i>Troy, Pa.</i>	110 Wall st.
Nikola Carl Pierce	<i>Wallingford, Conn.</i>	Wallingford
Washington Platt	<i>Baltimore, Md.</i>	117 Wall st.
Charles Pope	<i>Geneva, Ill.</i>	248 York st.
John Hamilton Potter	<i>Detroit, Mich.</i>	125 High st.
Harden de Valson Pratt	<i>Elmira, N. Y.</i>	405 Temple st.
George Gordon Prentice, Jr.	<i>New Haven, Conn.</i>	547 Ferry st.
Harold Reed Preston	<i>Norwich, Conn.</i>	130 Wall st.
Nathan Evarts Preston	<i>St. Joseph, Mich.</i>	125 High st.
William Edwin Prindle	<i>New Haven, Conn.</i>	122 Wall st.
Maxwell Lewis Rafferty	<i>New York City</i>	148 Grove st.
Ralph Ragan	<i>Atlanta, Ga.</i>	114 High st.
Harold Beers Randall	<i>Shelton, Conn.</i>	409 Temple st.

William LeRoy Rauch	<i>Topeka, Kans.</i>	279 Crown st.
Charles Hubert Ray	<i>Terre Haute, Ind.</i>	115 Wall st.
Dudley Ely Raymond	<i>South Norwalk, Conn.</i>	3 Hillhouse av.
Theodore Byington Reed	<i>Montclair, N. J.</i>	650 E. D.
David Reichgott	<i>New Haven, Conn.</i>	179 Congress av.
Gustave Adolph Reimann	<i>Seymour, Conn.</i>	74 Lake pl.
William Brodie Remington	<i>Rochester, N. Y.</i>	405 Temple st.
Warren McLellan Reynolds	<i>Wilkes-Barre, Pa.</i>	150 Grove st.
Howell Hubert Richards	<i>New Britain, Conn.</i>	25 Whalley av.
Ferdinand Ritter	<i>New Britain, Conn.</i>	82 Wall st.
Roy Lambe Roberts	<i>Riverside, R. I.</i>	114 High st.
Charles Joseph Robison	<i>Portland, Oregon</i>	419 Temple st.
William Rockwell	<i>Cleveland, O.</i>	113 Wall st.
Eustis Thacher Rowland	<i>New Haven, Conn.</i>	41 Maple st.
Louis Spring Runciman	<i>Buenos Ayres, Argent. Repub.</i>	397 Temple st.
Edgar Dickson Russell	<i>St. Paul, Minn.</i>	119 Wall st.
Lloyd Moss Salisbury	<i>New Haven, Conn.</i>	134 Grand av.
William Samuels	<i>Mt. Vernon, N. Y.</i>	393 Temple st.
Lawton Griswold Sargent	<i>New Haven, Conn.</i>	455 Humphrey st.
Sydney Forbes Sargent	<i>New Haven, Conn.</i>	256 Edwards st.
Edward Savage	<i>Bridgeport, Conn.</i>	128 Wall st.
Frank Julius Schmitz	<i>Waterbury, Conn.</i>	8 Trumbull st.
John William Seery	<i>West Haven, Conn.</i>	West Haven
George Dudley Selden, Jr.	<i>Erie, Pa.</i>	425 Temple st.
Wesson Seyburn	<i>Detroit, Mich.</i>	379 Temple st.
Everett Simeon Shaw	<i>Hampton, N. H.</i>	159 Elm st.
Harold Herbert Shear, Jr.	<i>Waco, Texas</i>	119 Wall st.
Edgar Raymond Shenk	<i>Erie, Pa.</i>	391 Temple st.
Harold Joseph Sheridan	<i>New Haven, Conn.</i>	711 Orange st.
Lytton James Shields	<i>St. Paul, Minn.</i>	126 High st.
Bradford Shinkle, Jr.	<i>Covington, Ky.</i>	82 Wall st.
Clarence Lynwood Sibley	<i>St. Louis, Mo.</i>	868 Elm st.
Cedric Malcolm Stanley Skene	<i>Norwalk, Conn.</i>	333 York st.
Allan Oakley Smith	<i>Brooklyn, N. Y.</i>	9 B. M. H.
Daniel Clarke Wharton Smith, 2d	<i>Baltimore, Md.</i>	11 B. M. H.
Hamilton Jewett Smith	<i>Detroit, Mich.</i>	12 B. M. H.
Jay Levi Smith	<i>Warren, Pa.</i>	70 Trumbull st.
Julius Benedict Smith	<i>Waterbury, Conn.</i>	400 Temple st.
Vernon Anderson Smith	<i>Minneapolis, Minn.</i>	117 Wall st.
Samuel Braden Sneath, 2d	<i>Tiffin, O.</i>	117 Wall st.
Leslie Charles Snyder	<i>Dayton, O.</i>	120 High st.
Robert Bennett Soderberg	<i>New Haven, Conn.</i>	398 Blatchley av.
Aloy Soong	<i>Honolulu, H. I.</i>	55 Prospect st.

Oscar Frank Soule	<i>Syracuse, N. Y.</i>	110 Wall st.
Thaddeus Harold Spencer	<i>Holyoke, Mass.</i>	665 W. D.
Charles Faber Starr	<i>Richmond, Ind.</i>	110 Wall st.
Morton Osborn Sterling	<i>Bridgeport, Conn.</i>	673 W. D.
John Frank Stevens, Jr.	<i>New Haven, Conn.</i>	148 Grove st.
Harold Stockton Stiles	<i>New Rochelle, N. Y.</i>	379 Temple st.
Addison Stillwell	<i>Chicago, Ill.</i>	111 Grove st.
Charles Henry Stokesbury	<i>Derby, Conn.</i>	Derby
Elijah James Stone	<i>Wheeling, W. Va.</i>	3 Hillhouse av.
William Angell Stone	<i>Chicago, Ill.</i>	110 Wall st.
Henry Lane Stout	<i>Chicago, Ill.</i>	377 Temple st.
Walter Vanderveen Struby	<i>Denver, Colo.</i>	333 York st.
Elbridge Hadley Stuart	<i>Seattle, Wash.</i>	120 High st.
Thomas Bonser Summers	<i>Springfield, O.</i>	111 Grove st.
Thomas Lynn Sutton	<i>Zanesville, O.</i>	120 High st.
Svante Magnus Swenson	<i>New York City</i>	389 Temple st.
Harold Elstner Talbot, Jr.	<i>Dayton, O.</i>	148 Grove st.
Collins MacNair Talbott	<i>Warren, Pa.</i>	226 York st.
Joseph Boyce Talmage	<i>Cleveland, O.</i>	110 Wall st.
Charles Donald Thompson	<i>New York City</i>	152 Grove st.
John Henry Thompson, Jr.	<i>Kansas City, Mo.</i>	82 Wall st.
Adam Gentles Thomson	<i>Duluth, Minn.</i>	88 Wall st.
James Dowling Trask, Jr.	<i>Highlands, N. J.</i>	6 B. M. H.
Henry Elisha Trowbridge	<i>New Haven, Conn.</i>	76 Gregory st.
Rufus Sylvester Tucker	<i>Raleigh, N. C.</i>	113 Wall st.
Edwin Stewart Underhill, Jr.	<i>Bath, N. Y.</i>	393 Temple st.
Arthur Floyd Van Dyck	<i>New Haven, Conn.</i>	95 Gregory st.
Raymond Trowbridge Viets	<i>Suffield, Conn.</i>	989 Dixwell av.
Joseph Austin Wade	<i>Philadelphia, Pa.</i>	59 Grove st.
Charles Gilbert Waldo, Jr.	<i>Bridgeport, Conn.</i>	2 B. M. H.
Willard Foster Walker	<i>Portsmouth, N. H.</i>	397 Temple st.
Norbert Sylvester Chouteau Walsh	<i>St. Louis, Mo.</i>	90 Wall st.
Walter S. Ward	<i>Pittsburg, Pa.</i>	133 Wall st.
Carroll Kennon Warmoth	<i>Lawrence, La.</i>	59 Grove st.
Robert Keeler Warner	<i>Syracuse, N. Y.</i>	333 York st.
William George Warnock	<i>Meriden, Conn.</i>	333 York st.
Samuel Warren	<i>Albany, N. Y.</i>	679 W. D.
Charles Cutler Waterman	<i>Boston, Mass.</i>	389 Temple st.
Lee Roland Watrous	<i>New Haven, Conn.</i>	441 Greenwich av.
Wheeler deForest Watrous	<i>New Haven, Conn.</i>	261 Bradley st.
George Edward Watson	<i>Derby, Conn.</i>	124 Wall st.
Frank Carter Wells	<i>Springfield, Mass.</i>	126 Wall st.
Warren Ayer Wells	<i>New York City</i>	119 Wall st.

Merton De Witt Westfall  
 Kenneth Knight Wheeler  
 Harold Andrews White  
 Charles Clarence Whittaker  
 James Peel Williams  
 Howard Wakeman Wills  
 Russell Cartright Wilmot  
 Eugene Munson Wilson  
 Vaughan Harrison Wilson  
 Clyde A. Winchell  
 Elihu Smith Wing  
 Silas Hemenway Witherbee  
 Edward Blaine Wix  
 Joseph Wood, Jr.  
 Richard Gilpin Wood, Jr.  
 Richard Ransom Wood  
 Wilfrid Wood  
 Donald Woodward  
 Richard Wrenshall  
 Gerald Lockwood Wright  
 Archibald Young  
 Charles Bennett Young  
 Edward Francis Yudkin  
 Harry Yudowitch

*Wilkes-Barre, Pa.* 333 York st.  
*New Haven, Conn.* 86 Trumbull st.  
*New Britain, Conn.* 82 Wall st.  
*East Norwalk, Conn.* 684 W. D.  
*Bridgeport, Conn.* 55 Prospect st.  
*Bridgeport, Conn.* 114 High st.  
*Bridgeport, Conn.* 117 Wall st.  
*Scranton, Pa.* 125 High st.  
*Dunmore, Pa.* 409 Temple st.  
*Shokan, N. Y.* 114 High st.  
*Greenfield Center, N. Y.* 407 Temple st.  
*Port Henry, N. Y.* 3 Hillhouse av.  
*New York City* 119 Wall st.  
*Pittsburg, Pa.* 3 Hillhouse av.  
*Bryn Mawr, Pa.* 148 Grove st.  
*Athol, Mass.* 46 Lake pl.  
*Morristown, N. J.* 88 Wall st.  
*Washington, D. C.* 151 V-S.  
*Sewickley, Pa.* 427 Temple st.  
*Hancock, Mich.* 82 Wall st.  
*Brooklyn, N. Y.* 82 Wall st.  
*Yalesville, Conn.* Yalesville  
*Ansonia, Conn.* 311 York st.  
*Hartford, Conn.* 46 High st.

FRESHMEN, 410

### SPECIAL STUDENTS

Benton Baker  
 Harold Francis Bidwell  
 Francis Vincent Carey  
 George Merwin Chapman, Jr.  
 Maxwell Bernstein Cohen  
 Frank Addison Cutler  
 William Treat Davidson  
 Carlos Porfirio Echeverria  
 Robert Edward Gaylord  
 Harrison Rountree Hathaway  
 Edgar Malin Hoopes, Jr.  
 William Adolph Notkins  
 Mauricio Julian Oteyza  
 John William Patton  
 Walther Penck

*Bismarck, N. D.* 147 V-S.  
*So. Manchester, Conn.* 287 York st.  
*Dorchester, Mass.* 393 Temple st.  
*Waterbury, Conn.* 148 V-S.  
*New York City* 19 Gold st.  
*New Haven, Conn.* 119 Washington av.  
*Warren, Pa.* 70 Trumbull st.  
*Mexico City, Mexico* 391 Temple st.  
*Winsted, Conn.* 124 Prospect st.  
*East Orange, N. J.* 121 V-S.  
*Wilmington, Del.* 121 V-S.  
*New Haven, Conn.* 704 Howard av.  
*Manila, P. I.* 8 Prospect pl.  
*Curwensville, Pa.* 82 Wall st.  
*Berlin, Germany* 152 Grove st.



Howard Park Porter	<i>East Jordan, Mich.</i>	128 Wall st.
Stephen D'Arcy Rickard	<i>Denver, Colo.</i>	128 High st.
Richard Bradley Rising, B. A.	<i>Springfield, Mass.</i>	126 Wall st.
Williams College 1908		
Kurt Roehrs	<i>Rutherford, N. J.</i>	91 C.
William Simpson Sloan	<i>New York City</i>	144 V-S.
Stephen Leslie Tyler	<i>New Haven, Conn.</i>	33 Pearl st.
Herbert Hamilton Wagenhals, B.A.	<i>Fort Wayne, Ind.</i>	775 Yale P. O.
Yale University 1907		
Cornelius Bushnell Watson, PH.B.	<i>Parkersburg, W. Va.</i>	133 College st.
Yale University 1908		
Alvin Goodnow Whitney	<i>Groton, Mass.</i>	78 Lake pl.
Ellwood Coggeshall Wilder	<i>Honolulu, H. I.</i>	279 Crown st.
Gurth Williams	<i>Plainfield, N. J.</i>	82 Wall st.
Stedman Walter Wynne	<i>New Haven, Conn.</i>	62 Lake pl.
John Albert Zuber, B.S.	<i>Columbus, O.</i>	373 Crown st.
St. Mary's Institute 1907		

SPECIAL STUDENTS, 28

## SUMMARY

GRADUATES	.	.	.	.	.	153
SENIORS	.	.	.	.	.	218
JUNIORS	.	.	.	.	.	297
FRESHMEN	.	.	.	.	.	410
SPECIAL STUDENTS	.	.	.	.	.	28
TOTAL						1106
STUDENTS FROM OTHER DEPARTMENTS						202
TOTAL UNDER INSTRUCTION						1308

# YALE SCHOOL OF THE FINE ARTS

## REGULAR STUDENTS

Edna Black Adams	<i>New Haven, Conn.</i> 544 Whitney av.
Frank L. Armstrong	<i>Bridgeport, Conn.</i> Bridgeport
Charles Haines Austin Ayers	<i>Port Jervis, N. Y.</i> 122 Wall st.
Dorothy Buckingham Bacon	<i>New Haven, Conn.</i> 244 Edwards st.
Lincoln Wade Barnes	<i>New Haven, Conn.</i> 1102 Chapel st.
Margaret Louise Billings	<i>New Haven, Conn.</i> 382 Whitney av.
Laura Jane Bradley	<i>New Haven, Conn.</i> 21 Hillside av.
Lorintha Blanche Brown	<i>Bridgeport, Conn.</i> Bridgeport
Geraldine Woolsey Carmalt	<i>New Haven, Conn.</i> 87 Elm st.
William Ellsworth Chamberlain	<i>New Haven, Conn.</i> 33 Eld st.
Abby Williams Chapman	<i>Winsted, Conn.</i> 235 Sherman av.
Theodore Deidrickson, Jr.	<i>New Haven, Conn.</i> 288 George st.
Isabella Ruth Doerfler	<i>Meriden, Conn.</i> Meriden
Joseph Francis Dunn	<i>West Haven, Conn.</i> West Haven
Salvatore Epifanio	<i>New Haven, Conn.</i> 798 Grand av.
William Edward Fagan	<i>Wallingford, Conn.</i> Wallingford
Charles Heaton Fulton	<i>New Haven, Conn.</i> 23 Livingston st.
Franklin Sherwood Guion	<i>New Haven, Conn.</i> 217 St. Ronan st.
Ethel Turney Houghton	<i>Stratford, Conn.</i> Stratford
Viola Ethel Hyde	<i>Peekskill, N. Y.</i> 79 Howe st.
Annie S. Johnson	<i>New Haven, Conn.</i> 374 Grand av.
Lester Julianell	<i>New Haven, Conn.</i> 247 Oak st.
John Frederick Kelly	<i>Whitneyville, Conn.</i> Whitneyville
Elizabeth Katherine Atwater Kirkman	<i>New Haven, Conn.</i> 183 Lawrence st.
Michael James Kopsco	<i>So. Norwalk, Conn.</i> 53 Lake pl.
Eunice Hall Linsly	<i>Northford, Conn.</i> 447 George st.
Herman Loth	<i>Highwood, Conn.</i> 616 Newhall st.
Michele Martino	<i>New Haven, Conn.</i> 109 Wallace st.
Marjorie Blair Maynard	<i>New Haven, Conn.</i> 430 George st.
Helen Zetler Moore	<i>New Haven, Conn.</i> 218 Orchard st.
Marie Helen Moran	<i>West Haven, Conn.</i> West Haven
Edna Brown Northrop	<i>Bridgeport, Conn.</i> Bridgeport
Winifred Allender Price	<i>New Haven, Conn.</i> 302 Lawrence st.
Harriet Grace Roe	<i>Bridgeport, Conn.</i> Bridgeport
Martino Rotellini	<i>New Haven, Conn.</i> 100 Greene st.
* August Spaenkuch	<i>New Haven, Conn.</i> Paris, France
Ruth Lillian Spalding	<i>New Haven, Conn.</i> 70 Grove st.

\* Holders of the William Wirt Winchester Fellowship.

Arthur Russell Squires	Akron, O.	199 F.
Mabel Lucy Stevens	Clinton, Conn.	Clinton
James Taddeo	New Haven, Conn.	75 Lafayette st.
Katherine Halsey Trowbridge	New Haven, Conn.	210 Prospect st.
Marjorie Alison Tuttle	New Haven, Conn.	24 High st.
Sarah Isabelle Weadick	New Haven, Conn.	591 Elm st.
Florence Helen Wood	Stratford, Conn.	79 Howe st.
Adeline Wrozina	West Haven, Conn.	West Haven
*Loutfi Daniel Yacobian	Troy, N. Y.	Paris, France
Natalie Barbara Zacher	Branford, Conn.	Branford

REGULAR STUDENTS, 47

## STUDENTS FROM OTHER DEPARTMENTS

Herbert Burr Alvord	Gloversville, N. Y.	184 F.
Henry Augustin Beers, Jr.	New Haven, Conn.	342 W.
Stephen Merrell Clement, Jr.	Buffalo, N. Y.	368 WH.
Allen Sturges Davenport	Yonkers, N. Y.	15 V.
Charles Glover Hammond	New Haven, Conn.	254 D.
Miles Carrington Hannah	Lake Forest, Ill.	445 FW.
Morgan Hebard	Philadelphia, Pa.	102 W.
Grant Milnor Hyde	Janesville, Wisc.	422 B.
Elmer Davenport Keith	Brooklyn, N. Y.	393 B.
Stephen Tomlinson Kelsey	East Orange, N. J.	45 V.
William Bradford MacLane	New Haven, Conn.	33 Howe st.
Paul Gurley Merrow	Hartford, Conn.	45 V.
Earle Stakemiller Nesbitt	Pawnee City, Nebr.	1169 Chapel st.
Maxwell Oswald Parry	Indianapolis, Ind.	6 V.
Allen Danforth Pettee	Cleveland, O.	170 L.
Clarence Eugene Secor, Jr.	Yonkers, N. Y.	425 FW.
Eustace Morrow Sheppard	Pittsburg, Pa.	343 WH.
William Hawthorne Shields, Jr.	Norwich, Conn.	401 B.
William Simpson Sloan	New York City	144 V-S.
Carl Hammond Thurston	Worcester, Mass.	347 WH.
Waldo Elliot Tillinghast	Vernon, Conn.	407 B.
Aubrey Richardson Watzek	Davenport, Ia.	443 FW.
Inness Whitaker	New York City	51 V.
Sheldon Smith Yates	Brooklyn, N. Y.	265 D.

STUDENTS FROM OTHER DEPARTMENTS, 24

## SUMMARY

REGULAR STUDENTS	47
STUDENTS FROM OTHER DEPARTMENTS	24
TOTAL UNDER INSTRUCTION	71

## DEPARTMENT OF MUSIC

### REGULAR STUDENTS

Sheila Jewett Bailey	<i>New Haven, Conn.</i>	26 Edgewood av.
Corinne Marie Baker	<i>Waterbury, Conn.</i>	Waterbury
Harry Joseph Barreuther	<i>Winsted, Conn.</i>	19 Whitney av.
Leita Tolles Beecher	<i>New Haven, Conn.</i>	359 Edgewood av.
Mary Elizabeth Bennett	<i>New Haven, Conn.</i>	357 Elm st.
Roy Walter Beron	<i>Waterbury, Conn.</i>	123 York st.
Laura Chase Birdsey	<i>Middletown, Conn.</i>	Middletown
Henry Emanuel Bonander	<i>New Haven, Conn.</i>	98 Chapel st.
Nellie May Boynton	<i>Branford, Conn.</i>	Branford
Josephine Brewster	<i>Warehouse Point, Conn.</i>	Warehouse Point
Charles Edward Burleigh	<i>Ansonia, Conn.</i>	Ansonia
Vestini Terentia Burr	<i>Southbury, Conn.</i>	Southbury
Peter Charles Caporossi	<i>New Haven, Conn.</i>	558 Grand av.
William Walter Carruth	<i>Oakland, Cal.</i>	78 Dwight st.
Vera Marie Clark	<i>Ansonia, Conn.</i>	Ansonia
Elsie Davidson Cropper	<i>Derby, Conn.</i>	Derby
George Edward Daniels	<i>New Haven, Conn.</i>	61 Shelton av.
Samuel Davey	<i>Ansonia, Conn.</i>	Ansonia
Harold Carter Davies	<i>New Haven, Conn.</i>	139 Shelton av.
Mary Whiting Deming	<i>New Haven, Conn.</i>	245 Bradley st.
Dorothea Mary Dexter	<i>New Haven, Conn.</i>	178 Prospect st.
Mary Esther Dudley	<i>New Haven, Conn.</i>	159 York st.
James Vincent Errico	<i>New Haven, Conn.</i>	82 Cove st.
Anna Young Fanslow	<i>New Haven, Conn.</i>	54 Salem st.
Allen Blanchard Fenno	<i>Edgewater, N. J.</i>	635 George st.
Salvatore Fiore	<i>Scranton, Pa.</i>	108 w.
Anna Smith Gagel	<i>West Haven, Conn.</i>	West Haven
Idella Nichols Gardner	<i>West Haven, Conn.</i>	West Haven
Maude Ethel Gordon	<i>Windsor, N. J.</i>	1305 Chapel st.
Effie Ella Grant	<i>New Haven, Conn.</i>	12 Edgewood av.
Irene Granville	<i>New Haven, Conn.</i>	118 Howe st.
Margaret Greenleaf	<i>Auburn, Me.</i>	57 Grove st.
George John Greiner	<i>New Haven, Conn.</i>	116 Nash st.
Helen Eugenia Hagan	<i>New Haven, Conn.</i>	83 Whalley av.
Arvin Burnham Hall	<i>New Haven, Conn.</i>	211 Norton st.
Lulu Frances Hare	<i>Terryville, Conn.</i>	273 Peck st.
Walter Earle Hartley, B.A.	<i>Grand Rapids, Mich.</i>	214 F.
Yale University 1908		
Dayton Millis Henry	<i>Waterbury, Conn.</i>	Waterbury
Frank Clifford Hill	<i>Meriden, Conn.</i>	Meriden
Ralph Shelton Hudson	<i>Windsor, Conn.</i>	686 w. D.
Eleanor Alexena Kennedy	<i>New Haven, Conn.</i>	45 Houston st.

Rose Mary Kennedy	Wallingford, Conn.	Wallingford
Frances Strong King	Richmond, Vt.	57 Grove st.
Frederick Kinsley, Jr.	New Haven, Conn.	176 Beacon av.
Frances Louise Kirchoff	New Haven, Conn.	75 Maple st.
Laura Adelia Kirkman	New Haven, Conn.	183 Lawrence st.
Alma Doddworth Kochersperger	New Haven, Conn.	463 Orange st.
Hattie Lambert	New Haven, Conn.	64 Whalley av.
Farnum Howard Lane	Hartford, Conn.	Hartford
Ruth Syner Lathrop	New Haven, Conn.	130 Howe st.
Rowland Edgar Leach, B.A.	Haverhill, Mass.	278 Orange st.
Beloit College 1908		
Kate L. Lewis	New Haven, Conn.	121 Park st.
Norma Symes Lewis	Anniston, Ala.	West Haven
Louis Lupo	New Haven, Conn.	291 Water st.
Marguerite Cecelia Macdonald	Ansonia, Conn.	Ansonia
Harry Irwin Metzger	New Haven, Conn.	710 State st.
Martha Curtis Miles	Milford, Conn.	Milford
William Hall Miner	Naugatuck, Conn.	Naugatuck
Constantina Moeller	New Haven, Conn.	349 Crown st.
Arley May Newell	Orange, Conn.	Orange
Ruth Parker Northrop	Bridgeport, Conn.	Bridgeport
Kathryn Augusta O'Connor	Middletown, Conn.	Middletown
Bessie Alice Pierce	South Britain, Conn.	South Britain
Louise Cornelia Pierpont	New Haven, Conn.	42 Mansfield st.
William Stevens Porter	Brooklyn, N. Y.	686 W. D.
Robert Henry Prutting	Hartford, Conn.	Hartford
Gertrude Reed	Waterbury, Conn.	Waterbury
Amy Rogers Rice	Guilford, Conn.	Guilford
Clarence Edward Rolfe	Ansonia, Conn.	Ansonia
Dora Rosine	Derby, Conn.	Derby
Mary Elizabeth Salt	New Haven, Conn.	Ridge st.
Dorothy Edna Schroeder	New Haven, Conn.	22 Wilson st.
Arthur Schukai	New Haven, Conn.	259 Columbus av.
Ena Rosalind Smirnow	New Haven, Conn.	142 Orange st.
Brainard Andrew Smith	Naugatuck, Conn.	222 F.
Jessie Rhea Starkweather	New Haven, Conn.	1452 Boulevard
Emeline Amelia Street	East Haven, Conn.	East Haven
Mary Gertrude Sullivan	New Haven, Conn.	23 Pearl st.
Seymour Howell Taylor	Adrian, Mich.	225 Crown st.
Francis David Tiernan	New Haven, Conn.	250 Howard av.
William Andrew Tinsley	Waterbury, Conn.	Waterbury
Inez Louise Torrey	Wallingford, Conn.	Wallingford
Leo Troostwyk	New Haven, Conn.	179 Bradley st.
Charles Worthington Vishno, M.D.	New Haven, Conn.	23 College st.
Yale University 1885		

Joseph Nicholas de Vito	<i>Waterbury, Conn.</i>	Waterbury
Louis Martin de Vito	<i>Waterbury, Conn.</i>	Waterbury
Gertrude Katherine Voelker	<i>New Haven, Conn.</i>	595 Dixwell av.
Pauline Voorhees	<i>Westville, Conn.</i>	69 Fountain st.
Anna Marie Weber	<i>New Haven, Conn.</i>	262 Lloyd st.
Agnes Matella Whitcomb	<i>New Haven, Conn.</i>	111 Linden st.
Maud Vernon Wilcox	<i>Milford, Conn.</i>	Milford
Ruth Wilson	<i>New Haven, Conn.</i>	50 Houston st.
Mabel Adelaide Woodruff	<i>Stamford, Conn.</i>	Stamford
Lucy Bell Woodward	<i>Hartford, Conn.</i>	Hartford
Cecil Wright	<i>Sandy Hook, Conn.</i>	542 P.

REGULAR STUDENTS, 95

## STUDENTS FROM OTHER DEPARTMENTS

Charles Guy Algase	<i>Utica, N. Y.</i>	544 P.
Clarence Hayden Allis	<i>Derby, Conn.</i>	53 V.
Edward Shippen Barnes	<i>New York City</i>	143 L.
Walter Barnum	<i>Mamaroneck, N. Y.</i>	376 WH.
Alfred Alexander Biddle	<i>Philadelphia, Pa.</i>	32 V.
Percy Welles Bidwell	<i>So. Manchester, Conn.</i>	258 D.
Frank Silver Brainard	<i>New York City</i>	374 WH.
Neal Townley Childs	<i>New York City</i>	335 WH.
Stephen Merrell Clement, Jr.	<i>Buffalo, N. Y.</i>	368 WH.
Kent Sarver Clow	<i>Chicago, Ill.</i>	260 D.
Samuel Coan	<i>New Haven, Conn.</i>	1009 Yale P. O.
Aims Chamberlain Coney	<i>Orange, N. J.</i>	236 D.
Edward Boies Cowles	<i>Rye, N. Y.</i>	116 W.
Clay Crawford	<i>Fort Thomas, Ky.</i>	52 V.
Trevor Arnold Cushman	<i>Winchester, Mass.</i>	372 WH.
James McLellan Dain	<i>Peekskill, N. Y.</i>	22 College st.
David Lewis Daggett	<i>New Haven, Conn.</i>	237 D.
Frank Damrosch, Jr.	<i>New York City</i>	359 WH.
Lyall Dean	<i>New York City</i>	20 V.
Sidney Philip Dine	<i>Cincinnati, O.</i>	391 B.
Wadworth Doster	<i>Bethlehem, Pa.</i>	422 B.
Albert Jeffries Evans	<i>Pittsburg, Pa.</i>	123 York st.
John Favill	<i>Chicago, Ill.</i>	4 V.
Waldo David Frank	<i>New York City</i>	254 Crown st.
Arthur Benson Gilbert	<i>Mt. Kisco, N. Y.</i>	264 D.
Clarence Flack Graham	<i>Albany, N. Y.</i>	400 B.
Alexander Hamilton	<i>Great Barrington, Mass.</i>	152 Temple st.
Robert Young Hayne	<i>San Mateo, Cal.</i>	129 W.
Birch Helms	<i>Pottsville, Pa.</i>	9 V.
Carle William Henze, M.D.	<i>New Haven, Conn.</i>	22 Trumbull st.

Lyman Northrop Hine	<i>New York City</i>	262 D.
Henry Gilbert Holt	<i>Grand Rapids, Mich.</i>	369 WH.
James Merriam Howard	<i>Montclair, N. J.</i>	451 FW.
Burrell Richardson Huff	<i>Greensburg, Pa.</i>	29 V.
Augustus Knight	<i>Evanston, Ill.</i>	456 FW.
Robert Louis Levy	<i>New York City</i>	427 FW.
Carl Albert Lohmann	<i>Akron, O.</i>	104 W.
William Bradford McLane	<i>New Haven, Conn.</i>	33 Howe st.
Winfield Scott Manship, B.A. Wesleyan University 1886, B.D. Yale University 1889, PH.D. 1901	<i>Cheshire, Conn.</i>	Cheshire
Asa Suydam Merrell	<i>Flemington, N. J.</i>	176 V-S.
Charles George Mills	<i>Bradford, Pa.</i>	124 Prospect st.
Robert Wilden Neeser, B.A. Yale University 1906	<i>New York City</i>	1076 Chapel st.
Allen Douglas Parker	<i>Lowell, Mass.</i>	441 FW.
Wendell Lawrence Paul	<i>Montreal, Canada</i>	59 Wall st.
Richardson Phelps	<i>Minneapolis, Minn.</i>	456 FW.
Joseph Curtis Platt	<i>Scranton, Pa.</i>	369 WH.
Philip Skinner Platt	<i>Scranton, Pa.</i>	242 York st.
George Stewart Pomeroy, Jr.	<i>Wernersville, Pa.</i>	454 FW.
Warren Cone Pratt	<i>Hartford, Conn.</i>	347 WH.
William Howard Read	<i>Brooklyn, N. Y.</i>	338 WH.
Graham Llewellyn Reynolds	<i>Pasadena, Cal.</i>	127 W.
Truman Post Riddle	<i>St. Louis Mo.</i>	352 WH.
Edward Constant Roberts	<i>Hartford, Conn.</i>	100 W.
William Silliman Rogers	<i>Buffalo, N. Y.</i>	373 WH.
Raymond Joseph Schweizer	<i>New York City</i>	69 V.
George Mark Sneath, B.A. Yale University 1907	<i>New Haven, Conn.</i>	32 Perkins st.
Joel Andrew Sperry, 2d	<i>New Haven, Conn.</i>	173 Ellsworth av.
Scott Sterling	<i>Lawrence, Kans.</i>	264 D.
Samuel Ross Swift, B. S. Geneva College 1906	<i>Beaver Falls, Pa.</i>	641 E. D.
Allen Peter Tanner	<i>Naugatuck, Conn.</i>	222 F.
Adrian Van Sinderen	<i>Brooklyn, N. Y.</i>	269 D.
Floyd Wallace	<i>Wallingford, Conn.</i>	337 WH.
Philip Barrows Whitehead, B.A. Beloit College 1906	<i>Janesville, Wisc.</i>	64 E. D.
James Moro Whittaker	<i>Cincinnati, O.</i>	23 V.
Wayland Wells Williams	<i>New Haven, Conn.</i>	252 D.
Monroe Falk Zunder	<i>New Haven, Conn.</i>	583 Whitney av.

## STUDENTS FROM OTHER DEPARTMENTS, 66

## SUMMARY

REGULAR STUDENTS . . . . .	95
STUDENTS FROM OTHER DEPARTMENTS . . . . .	66
<b>TOTAL UNDER INSTRUCTION . . . . .</b>	<b>161</b>

**DEPARTMENT OF FORESTRY**  
**(YALE FOREST SCHOOL)**  
**SENIOR CLASS**

Fredrik Ferdinand Woods Beckman	<i>Altoona, Pa.</i>	717 W. D.
Stockholm Högre Reallaroverk 1905		
Frederick Howell Billard, B.A.	<i>Meriden, Conn.</i>	423 Temple st.
Yale University 1896		
John Manvers Briscoe	<i>Pottsville, Pa.</i>	423 Temple st.
Georges de S. Canavarro, B.S.	<i>Honolulu, H. I.</i>	423 Temple st.
University of Minnesota 1908		
William Darrow Clark, B.A.	<i>Yorktown Heights, N. Y.</i>	74 Whalley av.
Yale University 1904		
John Daniel Coffman	<i>New Haven, Conn.</i>	91 Lake pl.
Arthur Wood DuBois, B.A.	<i>Hallstead, Pa.</i>	423 Temple st.
Cornell University 1907		
William Edwin Dunham, PH.B.	<i>Warren, Pa.</i>	57 Elm st.
Yale University 1908		
Herman Edgar Fegley, B.A.	<i>Auburn, Pa.</i>	62 Lake pl.
Franklin and Marshall College 1904		
Frederick Alan Gaylord, PH.B.	<i>Ansonia, Conn.</i>	379 Temple st.
Yale University 1908		
Belknap Chittenden Goldsmith, B.S.	<i>Berkeley, Cal.</i>	70 Whalley av.
University of California 1906		
Edgar Clarkson Hirst, B.A.	<i>Yellow Springs, O.</i>	60 Whalley av.
Ohio State University 1907		
Allen Harrison Hodgson	<i>Chico, Cal.</i>	74 Whalley av.
Henry Julian Correll Humphrey, PH.B.	<i>Brooklyn, N. Y.</i>	57 Elm st.
Yale University 1908		
Oswald Drew Ingall, B.A.	<i>Montclair, N. J.</i>	74 Whalley av.
Cornell University 1907		
Henry Langley Johnson, B.A.	<i>Boston, Mass.</i>	129 Mansfield st.
Cornell University 1907		
Richard Chapin Jones, B.A.	<i>Nashville, Tenn.</i>	60 Whalley av.
Vanderbilt University 1904		
Joseph Casimir Kircher, B.A.	<i>Belleville, Ill.</i>	1076 Chapel st.
Yale University 1907		
Aldo Leopold, PH.B.	<i>Burlington, Ia.</i>	379 Temple st.
Yale University 1908		
Everett Herman MacDaniels, B.A.	<i>Oberlin, O.</i>	74 Whalley av.
Oberlin College 1906		
Rufus Sherrell Maddox, B.A.	<i>Coldwater, Tenn.</i>	664 W. D.
Yale University 1907		
Frederick Franklin Moon, B.A.	<i>Nazareth, Pa.</i>	664 W. D.
Amherst College 1901		
Royal Freeman Nash, B.A.	<i>Grand Rapids, Wisc.</i>	8 Prospect pl.
Columbia University 1908		



William Bushnell Osborne, Jr., B.A.	<i>Victor, N. Y.</i>	379 Temple st.
Williams College 1907		
Percy Jerauld Paxton, B.A.	<i>Princeton, Ind.</i>	379 Temple st.
Williams College 1906		
Reuben Parker Prichard, B.S.	<i>Somerville, Mass.</i>	74 Whalley av.
Dartmouth College 1907		
Abbott Beecher Silva	<i>Chattanooga, Tenn.</i>	134 Dwight st.
Robert Simmons, B.A.	<i>New York City</i>	32 Trumbull st.
College of the City of New York 1905		
Thomas Elliot Snyder, B.A.	<i>New York City</i>	8 Prospect pl.
Columbia University 1907		
Willard Springer, Jr., C.E.	<i>Wilmington, Del.</i>	60 Whalley av.
Lafayette College 1907		
Ernest Cousins Wheeler, B.A.	<i>Norwalk, Conn.</i>	1076 Chapel st.
Yale University 1907		
Chester Harvey Wilcox, C.E.	<i>Center Moriches, N. Y.</i>	60 Whalley av.
Lehigh University 1907		
Addison Wetherald Williamson, PH.B.	<i>Waterport, N. Y.</i>	91 Lake pl.
Wesleyan University 1907		
Meyer Henry Wolff, PH.B.	<i>Brooklyn, N. Y.</i>	29 Sylvan av.
Yale University 1908		

## SENIOR CLASS, 34

## JUNIOR CLASS

Walter George Alpaugh, B.S.	<i>Willimantic, Conn.</i>	13 Lake pl.
Tufts College 1908		
William George Baxter, B.S.A.	<i>Galva, Ia.</i>	13 Lake pl.
Iowa State College 1908		
George Adams Bright, B.S.	<i>Washington, D. C.</i>	695 W. D.
Dartmouth College 1908		
Donald Bruce, B.A.	<i>Easthampton, Mass.</i>	200 F.
Yale University 1906		
Norman Curtis Case, B.S.	<i>Highland, Kans.</i>	90 Lake pl.
Highland College 1908		
Guy Cory Cleveland, B.A.	<i>Orange, N. J.</i>	53 Lake pl.
Yale University 1908		
Hamilton Morel Coan, B.A.	<i>New York City</i>	17 Lake pl.
Princeton University 1907		
George Alexander Cromie	<i>Asquith, Saskatchewan</i>	1179 Chapel st.
Edward Stiles Davey, B.A.	<i>Jersey City, N. J.</i>	210 F.
Yale University 1908		
Ernest Griswold Dudley, B.A.	<i>Stanford University, Cal.</i>	78 Lake pl.
Leland Stanford Jr. University 1908		
Robie Mason Evans, B.A.	<i>Fryeburg, Me.</i>	78 Lake pl.
Dartmouth College 1906		
Harold Fay, B.A.	<i>Somerville, Mass.</i>	8 Prospect pl.
Tufts College 1904		

Max Henry Foerster Marburg Gymnasium	<i>Sea Cliff, L. I., N. Y.</i>	8 Prospect pl.
Harold Parker Gilkey, B.A. Harvard University 1908	<i>Richland, Mich.</i>	701 W. D.
James Lippincott Goodwin, B.A. Yale University 1905	<i>New York City</i>	379 Temple st.
James Ovington Hazard, PH.B. Brown University 1908	<i>Westerly, R. I.</i>	90 Lake pl.
Frank Heintzleman, B.F. Penn. State Forest Acad. 1907	<i>Fayetteville, Pa.</i>	8 Prospect pl.
Ben Hershey, B.A. Williams College 1906	<i>Sterling, Ill.</i>	53 Lake pl.
Lester Eugene Hitchcock, B.S. Coe College 1907	<i>Cedar Rapids, Ia.</i>	13 Lake pl.
Crosby Arthur Hoar, B.A. Dartmouth College 1908	<i>West Acton, Mass.</i>	78 Lake pl.
Thomas Hooker, B.A. Yale University 1908	<i>Hartford, Conn.</i>	78 Lake pl.
Julius Ansgar Larsen, B.A. Yale University 1908	<i>New Haven, Conn.</i>	418 B.
Raymond Eugene Marsh, B.S. Dartmouth College 1908	<i>Westport, N. H.</i>	715 W. D.
Frederick Ramsay Mason, B.S. Rutgers College 1905	<i>Bound Brook, N. J.</i>	13 Lake pl.
Willis Munro, B.A. Harvard University 1896, LL.B. 1899	<i>Buffalo, N. Y.</i>	1151 Chapel st.
Frank Browning Notestein, PH.B. University of Wooster 1908	<i>Wooster, O.</i>	716 W. D.
Mauricio Julian Oteyza	<i>Manila, P. I.</i>	8 Prospect pl.
Dana Parkinson, B.A. Dartmouth College 1908	<i>Waltham, Mass.</i>	715 W. D.
William Norwood Sparhawk, B.A. Yale University 1908	<i>West Swansey, N. H.</i>	202 F.
Irving Gay Stetson, B.A. Harvard University 1907	<i>Bangor, Me.</i>	8 Prospect pl.
Albert Ogden Vorse, B.S. Bucknell University 1905	<i>Lewisburg, Pa.</i>	8 Prospect pl.
Robert Sinclair Wallace, B.A. Macalester College 1908	<i>St. Paul, Minn.</i>	716 W. D.
Edgar Fowler White, B.A. Dartmouth College 1908	<i>Danvers, Mass.</i>	53 Lake pl.
Alvin Goodnow Whitney	<i>Groton, Mass.</i>	78 Lake pl.
Walter Keene Wildes, B.A. Bowdoin College 1904	<i>Little Falls, N. J.</i>	701 W. D.
Sedman Walter Wynne	<i>Butte, Mont.</i>	62 Lake pl.

# STUDENTS TAKING THE SHORT COURSE IN THE SUMMER SCHOOL

Frederick Storrs Baker	<i>Beverly, Mass.</i>
Peter Kapiton Boshco	<i>New York City</i>
Philip Laurence Buttrick	<i>New Haven, Conn.</i>
Clement Joseph Dore	<i>Roxbury, Mass.</i>
Stuart Emmet Edgar	<i>Nutley, N. J.</i>
George Joseph Frick	<i>New York City</i>
Paul Byram Haines	<i>New Haven, Conn.</i>
Thomas Halvorsen	<i>Christiania, Norway</i>
Richard Joseph Hayden	<i>Boston, Mass.</i>
George Whiting Hendry	<i>Detroit, Mich.</i>
Jacquin Phillips	<i>New York City</i>
Joseph Henry Potts	<i>Shepherdstown, W. Va.</i>
Howard Pyle, Jr.	<i>Wilmington, Del.</i>
Arthur Merriam Rowley	<i>Springfield, Mass.</i>
Calvin Seymour Stowell	<i>Olean, N. Y.</i>
Eugene Grover Walker	<i>Southbridge, Mass.</i>

STUDENTS TAKING THE SHORT COURSE IN THE SUMMER SCHOOL, 16

## SUMMARY

SENIOR CLASS . . . . .	34
JUNIOR CLASS . . . . .	36
REGULAR STUDENTS . . . . .	70
STUDENTS TAKING THE SHORT COURSE AT THE SUMMER SCHOOL . . . . .	16
STUDENTS FROM OTHER DEPARTMENTS . . . . .	17
TOTAL UNDER INSTRUCTION	103

**DEPARTMENT OF THEOLOGY**  
**(YALE DIVINITY SCHOOL)**  
**GRADUATE CLASS**

HOOKER FELLOW FOR 1908

<b>Darwin Ashley Leavitt, B.A.</b> Beloit College 1904, B.D. Yale University 1907	<i>Beloit, Wisc.</i>	Berlin, Germany
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DWIGHT FELLOW FOR 1908

<b>Daniel Webster Kurtz, B.A.</b> Juniata College 1905, B.D. Yale University 1908	<i>Lake, O.</i>	Leipsic, Germany
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<b>William Talbot Allison, B.A.</b> University of Toronto 1899, B.D. Yale University 1901	<i>Middlefield, Conn.</i>	Middlefield
<b>Leslie Burdette Briggs, B.A.</b> University of California 1907, M.Litt. 1908, B.D. Pacific Theological Seminary 1908	<i>Berkeley, Cal.</i>	396 Elm st.
<b>William Burrows, B.A.</b> St. Stephen's College 1902, B.D. Berkeley Divinity School 1905, M.A. Yale University 1906	<i>New Haven, Conn.</i>	68 Grand av.
<b>Raymond Gilmore Clapp, B.A.</b> Boston University 1900, B.D. Yale University 1903, M.A. 1904	<i>Boston, Mass.</i>	613 E. D.
<b>William Abraham Crowley, B.A.</b> Transylvania University 1907, M.A. 1908	<i>Liberty, Mo.</i>	653 E. D.
<b>James Levi Deming, B.A.</b> University of Cincinnati 1888, M.A. Bethany College 1900	<i>New Haven, Conn.</i>	24 Everitt st.
<b>John Luther Dickson, B.D.</b> Yale University 1908	<i>Madison, Conn.</i>	Madison st.
<b>Charles String Gray, B.A.</b> Princeton University 1901, B.D. Hartford Theological Seminary 1904	<i>New Haven, Conn.</i>	75 Fourth st.
<b>Hubert Oliver Gilman, B.D.</b> Drew Theological Seminary 1904	<i>Milford, Conn.</i>	Milford
<b>Henry Hoadly Guernsey, B.D.</b> Yale University 1905	<i>New Haven, Conn.</i>	602 E. D.
<b>William Henry Harris</b> Wesleyan Theological College, Montreal B.D. Yale University 1907	<i>Wardsville, Ontario, Canada</i>	635 E. D.
<b>John Edward Herman, B.D.</b> Yale University 1888	<i>New Preston, Conn.</i>	705 W. D.
<b>Harold Bruce Hunting, B.A.</b> Yale University 1901, B.D. 1904	<i>New Haven, Conn.</i>	41 Pleasant st.

- Kannosuke Kawanaka, B.A. *Toba, Japan* 612 E. D.  
 Tohoku Gakuin 1889,  
 B.D. Pacific Theological Seminary 1906,  
 M.A. Columbia University 1907
- Theodore Burger Lathrop, B.A. *Bethlehem, Conn.* Bethlehem  
 Beloit College 1903,  
 B.D. Yale University 1908
- Ernest Frank McGregor, B.A. *Clinton, Conn.* Clinton  
 University of Minnesota 1901,  
 B.D. Yale University 1904, M.A. 1906
- John McKenzie, B.A. *Bear Line, Ontario, Canada* 622 E. D.  
 University of Toronto 1903
- John Lee Maddox, B.A. *Deering, No. Dak.* 675 W. D.  
 Denison University 1904,  
 B.D. Yale University 1908
- Winfield Scott Manship, B.A. *Cheshire, Conn.* Cheshire  
 Wesleyan University 1886,  
 B.D. Yale University 1889, PH.D. 1901
- Howard Ansel Morton, B.A. *Essex, Conn.* Essex  
 Acadia University 1897,  
 B.A. Harvard University 1899,  
 B.D. Chicago Theological Seminary 1904
- Edgar Hammond Olmstead, B.A. *Kensington, Conn.* Kensington  
 Tri-State Normal College 1893,  
 B.D. Oberlin College 1899
- LeRoy Clifton Partch, B.A. *Linesville, Pa.* 83 Mechanic st.  
 Hillsdale College 1905,  
 B.D. Oberlin College 1907
- Vergil Vivian Phelps, PH.B. *Bay City, Mich.* 651 E. D.  
 University of Chicago 1901, PH.M. 1903, B.D. 1907
- Thomas William Salt, B.A. *Georgetown, O.* 27 Ridge st.  
 McLemoresville College 1894,  
 B.D. U. S. Grant University 1888, M.A. 1889, PH.D. 1890
- Benjamin Franklin Saxon, B.A. *Bridgeport, Conn.* Bridgeport  
 N. Y. University 1904,  
 B.D. Drew Theological Seminary 1898
- William Bergen Stelle, B.A. *New Haven, Conn.* 132 Foster st.  
 Colgate University 1894,  
 B.D. Yale University 1897
- Frederick Azel Sumner, B.A. *Milford, Conn.* Milford  
 Oberlin College 1891,  
 Hartford Theological Seminary 1894
- Eduardo Tagliatela *New Haven, Conn.* 275 Lombard st.  
 Methodist Theol. School of Rome 1905,  
 B.D. University of Geneva 1901
- Shiro Tanaka *Gumma-Ken, Japan* 606 E. D.  
 Doshisha College 1893
- Charles Eugene Underwood, B.A. *Indianapolis, Ind.* 623 E. D.  
 Butler College 1903, M.A. 1904

William Wood Wallace, B.A. Hamilton College 1890, B.D. Yale University 1896	<i>New Haven, Conn.</i>	141 Bradley st.
Ernest Lionel Wismer, B.A. Yale University 1908, Bangor Theological Seminary	<i>New Haven, Conn.</i>	139 Green st.
William Hamilton Wood, B.A. University of Toronto 1901, B.D. Yale University 1905	<i>Iroquois, Canada</i>	645 E. D.
Isaburo Yano Tohoku Gakuin 1898, B.D. Princeton Seminary 1907, M.A. Princeton University 1908	<i>Sendai, Japan</i>	614 E. D.

## GRADUATE CLASS, 36

## SENIOR CLASS

Malo Marius Amunson, B.A. Butler College 1905, M.A. 1906	<i>Wabash, Ind.</i>	622 E. D.
Lorne Webster Barclay, B.A. Bethany College, 1906, M.A. 1907	<i>Poplar Hill, Ontario, Can.</i>	198 Hamilton st.
Alfred Walter Budd Wesleyan College (Can.) 1906	<i>Middlebury, Conn.</i>	644 E. D.
Elmer Edwin Burtner, B.A. Otterbein University 1906	<i>Hinton, Va.</i>	635 E. D.
Gilbert Whitney Campbell, M.A. College of the Bible 1908		653 E. D.
Walter Lewis Ferris, B.A. Beloit College 1905	<i>Oak Park, Ill.</i>	636 E. D.
George Anthony Hall, B.S. Massachusetts Institute of Technology 1901	<i>Brookline, Mass.</i>	583 Howard av.
Rollo Albert Hamilton, B.D. Westminster Theological Seminary 1908	<i>Bearsville, Mich.</i>	634 E. D.
Luther Bateman Henderson, B.S. New York University 1906	<i>Newport, N. J.</i>	655 W. D.
William Rabon Howell, PH.B. Milligan College 1904, B.A. 1905, M.A. Yale University 1908	<i>Wilson, N. C.</i>	624 E. D.
William Hayes Longsworth, B.A. West Lafayette College 1906	<i>Oxford, Conn.</i>	Oxford
Fred Elmore Lumley, B.A. Hiram College 1905, M.A. McMaster University 1907	<i>St. Thomas, Ontario, Canada</i>	Northford
Harry Stratton Martin, B.A. Carleton College 1903	<i>Spring Valley, Wisc.</i>	604 E. D.
Washington Irving Maurer, B.A. Beloit College 1904	<i>Bridgeport, Conn.</i>	Bridgeport
Thomas Benjamin Powell, B.A. Bucknell University 1906	<i>Scranton, Pa.</i>	630 E. D.

Samuel Carlyle Schaeffer	<i>Chicago, Ill.</i>	656 W. D.
John Alfred Seymour, S.T.L.	<i>VanCamp, Ontario, Canada</i>	639 E. D.
Columbian Methodist College 1904, B.D. 1905, B.A. Central University 1905		
Samuel Ross Swift, B.S.	<i>Beaver Falls, Pa.</i>	641 E. D.
Geneva College 1906		
Commodore Robert Watkins	<i>Nashville, Tenn.</i>	633 E. D.
Dean Rockwell Wickes, PH.B.	<i>Chicago, Ill.</i>	626 E. D.
University of Chicago 1905, M.A. Yale University 1908		
Lawrence Albert Wilson, PH.B.	<i>Ripon, Wisc.</i>	619 E. D.
Lawrence University 1903 Transylvania University 1907, M.A. 1908		

## SENIOR CLASS, 21

## MIDDLE CLASS

Robert Elmer Chandler, B.A.	<i>Auburndale, Mass.</i>	629 E. D.
Yale University 1904		
Arthur Raymond Clippinger, B.A.	<i>Shippensburg, Pa.</i>	96 Dwight st.
Lebanon Valley College 1905		
John Maurice Deyo, B.A.	<i>Fairfield, Conn.</i>	Fairfield
Yale University 1908		
Samuel Ellis Dunham, B.A.	<i>New Haven, Conn.</i>	123 Park st.
Yale University 1908		
Eugene Norman Duty, B.A.	<i>Pittsburg, Pa.</i>	646 E. D.
Bethany College (W. Va.) 1908		
Ephraim Irwin Gilmore, PH.B.	<i>Vincennes, Ind.</i>	694 W. D.
Hamline University 1907		
Edwin Deeks Harvey, B.A.	<i>Rock Ferry, England</i>	624 E. D.
Yale University 1907		
Mark Gordon Inghram, B.A.	<i>Waynesburg, Pa.</i>	626 E. D.
Waynesburg College 1904		
Herman Henry Lindeman, B.A.	<i>Milford, Nebr.</i>	628 E. D.
University of Nebraska, 1903		
George Strather McClary, B.A.	<i>Rapidan, Va.</i>	646 E. D.
Bethany College (W. Va.) 1908		
Samuel Richard Morsell, B.A.	<i>Baltimore, Md.</i>	638 E. D.
Oberlin College 1907		
Algoth Ohlson	<i>Brevik Hvena, Sweden</i>	620 E. D.
Chicago Theological Seminary 1907		
Freeman Lewis Pettit, B.A.	<i>Bethany, Nebr.</i>	1161 Chapel st.
Cotner University 1901		
Clarence M. Smail, B.A.	<i>Perrysville, O.</i>	646 E. D.
Bethany College (W. Va.) 1908		
George Mark Sneath, B.A.	<i>New Haven, Conn.</i>	32 Perkins st.
Yale University 1907		

Alexander Steele, B.A. Adrian College 1900	Newtown, Conn.	Newtown
Clifford Griffith Thompson, B.A. Young Harris College 1903	Bogart, Ga.	647 E. D.
David Wilder, B.A. Talladega College 1901	Norwich, Conn.	678 W. D.
Truman Everett Winter, B.A. Hiram College 1908	Hiram, O.	74 Whalley av.
Milton Frederick Wittler, B.A. Pomona College 1907	Seattle, Wash.	631 E. D.

## MIDDLE CLASS, 20

## JUNIOR CLASS

Solomon Garabed Akkelian, B.A. Central Turkey College 1908	Aintab, Turkey	637 E. D.
Frank William Brown, PH.B. Hiram College 1904	Cleveland, O.	724 W. D.
Warren Foster Cook Theodore Rush Faville, B.A. Beloit College 1904	Middlefield, Conn. LaCrosse, Wisc.	Middlefield 642 E. D.
Augustus William Gidart, B.A. University of Chicago 1907	Nybyggt, Barnarp, Jönköping, Sweden	617 E. D.
Hugh Hartshorne, B.A. Amherst College 1907	Methuen, Mass.	649 E. D.
Hollis Douglass Immich, PH.B. Yale University 1906	Meriden, Conn.	709 W. D.
Harold Merrybright Kingsley, B.A. Talladega College 1908	Mobile, Ala.	106 Goffe st.
Ray Holme Legate, B.S. University of Arkansas 1905	Mena, Ark.	299 Norton st.
Victor Edward Marriott, B.A. Beloit College 1905	Beloit, Wisc.	643 E. D.
Per Albin Nelson Edward Kingston Nichols, B.A. Morris Brown College 1899	Clinton, Ia. Atlanta, Ga.	61 Winchester av. 678 W. D.
Samuel Robert Magee Oakes John Henry Poorman, B.A. Ursinus College 1903	Carlton, Mont. Lebanon, Pa.	690 W. D. 649 E. D.
Thomas Penn Ullom Von Ogden Vogt, B.A. Beloit College 1901	Barnesville, O. New York City	119 Dwight st. 640 E. D.
Elmer Ruel Walton, B.A. University of Mississippi 1905	Columbus, Miss.	694 W. D.
Ernest Clay Webb, B.A. Vanderbilt University 1908	Webb City, Mo.	704 W. D.
Christopher Hubert Yearwood	Georgetown, Brit. Guiana	93 Dixwell av

## JUNIOR CLASS, 19



STUDENTS PURSUING SELECTED STUDIES

Wilbur Edward Andrews	West Haven, Conn.	West Haven
Charles Sturges Ball	Bridgeport, Conn.	Bridgeport
Almon Treat Boland	Canterbury, Conn.	696 W. D.
Angelo di Domenica	New Haven, Conn.	301 George st.
James M. Lent	New Haven, Conn.	
Howard Curtis Meserve, B.A.	Milford, Conn.	Milford
Bucknell University 1899, M.A. 1904		
Kokenji Nagata	Yoyono, Japan	616 W. D.
Arthur J. Pennell	Bridgeport, Conn.	Bridgeport
Charles George Smith	New Haven, Conn.	304 Exchange st.
Louis Tarnoczi	Szentes, Hungary	Bridgeport

STUDENTS PURSUING SELECTED STUDIES, 10

SUMMARY

GRADUATE CLASS	.	.	.	.	36
SENIOR CLASS	.	.	.	.	21
MIDDLE CLASS	.	.	.	.	20
JUNIOR CLASS	.	.	.	.	19
SPECIAL CLASS	.	.	.	.	10
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REGULAR STUDENTS	.	.	.	.	106
STUDENTS FROM OTHE DEPARTMENTS	.				18
					<hr/>
TOTAL UNDER INSTRUCTION					124

## DEPARTMENT OF MEDICINE

### (YALE MEDICAL SCHOOL)

#### SENIOR CLASS

Jacques Louis Buttner	<i>Douai, France</i>	78 Dwight st.
Daniel Joseph Byrne	<i>Waterbury, Conn.</i>	93 Davenport av.
Thomas Humphrey Gallivan	<i>Norwich, Conn.</i>	919 Howard av.
Alfred Carlton Gilbert	<i>Portland, Oregon</i>	83 Park st.
William Joseph Murray Good	<i>Norwich, Conn.</i>	919 Howard av.
Vincent Joseph Irwin, Jr.	<i>Springfield, Mass.</i>	1 Sylvan av.
Edward Charles Kiernan	<i>New Haven, Conn.</i>	98 St. John st.
George Washington King	<i>Ansonia, Conn.</i>	911 Howard av.
Israel Kleiner	<i>New Haven, Conn.</i>	288 Willow st.
William Charles McGuire	<i>New Haven, Conn.</i>	909 Howard av.
Walter Irving Russell	<i>Mystic, Conn.</i>	925 Howard av.
Abraham Albert Smernoff	<i>New Haven, Conn.</i>	71 Washington av.
John Newell Waggoner	<i>Jerseyville, Ill.</i>	925 Howard av.
Niles Westcott, B.A.	<i>Oak Lawn, R. I.</i>	219 York st.
Brown University 1905, M.A. 1905		
Fu-chun Yen	<i>Shanghai, China</i>	662 W. D.

SENIOR CLASS, 15

#### JUNIOR CLASS

William Henry Beardsley	<i>Roxbury Station, Conn.</i>	U. C.
Isidore Morton Brenner	<i>New York City</i>	44 Bishop st.
Sylvester Alonzo Brenza, B.A.	<i>Nanticoke, Pa.</i>	152 Temple st.
Valparaiso University 1907		
Arthur Edward Brides	<i>Brockton, Mass.</i>	895 Howard av.
Genesis Frank Carelli	<i>New Haven, Conn.</i>	79 Asylum st.
Charles Williams Comfort, Jr., B.A.	<i>Norristown, Pa.</i>	144 L.
Yale University 1907		
Jacob Julius Epstein	<i>New York City</i>	911 Howard av.
Edward Brendon Farley	<i>Derby, Conn.</i>	Derby
Benjamin Brooks Finkelstone	<i>Bridgeport, Conn.</i>	391 Temple st.
Edward James Finn	<i>Shelton, Conn.</i>	Shelton
William John Henry Fischer	<i>Danbury, Conn.</i>	699 W. D.
Claude Vincent Flaherty	<i>Ansonia, Conn.</i>	Ansonia
Charles Lawrence Furcolow	<i>New Haven, Conn.</i>	792 Grand av.
Carl Johannes Gade	<i>Bridgeport, Conn.</i>	925 Howard av.
George Goldman	<i>New Haven, Conn.</i>	64 Prince st.
John Davis Greenberg	<i>Hartford, Conn.</i>	856 Howard av.
John Jacob Gurtov	<i>New York City</i>	269 Portsea st.

James Hamilton, Jr., PH.B. Brown University 1906	Howard, R. I.	32 Park st.
Charles Elias Hyde	New Haven, Conn.	81 Newhall st.
George Richard James	Norwich, Conn.	141 Greene st.
Frank Elmer Johnson, B.A. Yale University 1907	New Haven, Conn.	45 Third st.
John Albert Kimzey	Detroit, Mich.	287 York st.
Herman Clarke Little	Manchester, Conn.	75 C.
John Charles Malony	Dundee, N. Y.	121 York st.
Alexander Louis Prince	Paterson, N. J.	27 High st.
Harry St. Clair Reynolds	New Haven, Conn.	317 Grand av.
Thomas Hubbard Russell, Jr., PH.B. Yale University 1906	New Haven, Conn.	137 Elm st.
Mark Thomas Sheehan	Wallingford, Conn.	Wallingford
Eugene Johnson States	Nicholson, Pa.	27 High st.
Harry Eaton Stewart	New Haven, Conn.	191 Edgewood av.
George Emanuel Thielcke	Danbury, Conn.	1 Sylvan av.
Herbert King Thoms	Torrington, Conn.	29 High st.
Henry Smith Turrill, PH.B. Yale University 1906	New Milford, Conn.	293 York st.
Harry St. John Williams	Waterbury, Conn.	120 York st.
Leslie Adams Wilson	Meriden, Conn.	120 York st.

JUNIOR CLASS, 35

## SECOND YEAR CLASS

Harry Louis Abramson	St. Joseph, Mo.	1081 Chapel st.
Charles Gardiner Barnum, B.A. Middlebury College 1905, M.A. 1907	Jericho Center, Vt.	344 Humphrey st.
Lewis Samuel Booth, B.A. Yale University 1908	Shelton, Conn.	125 Dwight st.
Robert Emmett Buckley	New Britain, Conn.	1081 Chapel st.
George Francis Cahill	New Haven, Conn.	53 Houston st.
Harry Albert Conte	New Haven, Conn.	183 Hamilton st.
James Francis Coughlan	New Haven, Conn.	196 Wallace st.
William Francis Cunningham	Norwich, Conn.	371 Crown st.
Joseph Laudium Desrosiers	New Haven, Conn.	42 Shelter st.
Tracy Farnam	New Haven, Conn.	37 Hillhouse av.
Charles Thomas Flynn	New Haven, Conn.	175 Orchard st.
William Ralph Fogarty	Ansonia, Conn.	Ansonia
James Francis Gorman	So. Manchester, Conn.	125 W.
George Clifford Graham	Bristol, Conn.	63 Pond st.
Joseph Edwards Harris	New Haven, Conn.	233 Oak st.
Samuel Clark Harvey, PH.B. Yale University 1907	Woodbury, Conn.	120 York st.
John Francis Krasnye	Yonkers, N. Y.	340 Orange st.
Maurice Farvish Lautman	New Britain, Conn.	112 Asylum st.

Maxwell Lear	<i>New Haven, Conn.</i>	61 Arch st.
Louis Henry Levy, PH.B. Yale University 1904, M.S. 1906	<i>New Haven, Conn.</i>	64 Congress av.
William Levy	<i>New Haven, Conn.</i>	91 Greene st.
James Patrick McManus	<i>New Haven, Conn.</i>	97 Orchard st.
John Simon Message	<i>Brooklyn, N. Y.</i>	114 High st.
Arthur Allan Mitten	<i>Chicago, Ill.</i>	371 Crown st.
Wallace Lyman Orcutt	<i>West Burke, Vt.</i>	339 York st.
Robert Frederick Scholl	<i>New Haven, Conn.</i>	149 Lombard st.
Richard Frank Seidensticker, B.A. Yale University 1907	<i>Meriden, Conn.</i>	120 York st.
Walter Clark Tilden	<i>New London, Conn.</i>	293 York st.
George Stephen Walker	<i>New Haven, Conn.</i>	205 Orchard st.
Monroe Falk Zunder	<i>New Haven, Conn.</i>	583 Whitney av.

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SECOND YEAR CLASS, 30

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FIRST YEAR CLASS

Reuben Harry Alpert	<i>New Haven, Conn.</i>	226 Commerce st.
Daniel Tony Banks	<i>New Haven, Conn.</i>	258 Fairmont av.
Martin Edwin Bry	<i>Webster Groves, Mo.</i>	615 E. D.
Jacob Burros	<i>Bridgeport, Conn.</i>	11 Salem st.
Eugene Frederick Callender	<i>Waterbury, Conn.</i>	585 Howard av.
George Philip Carr	<i>New Haven, Conn.</i>	57 Derby av.
Charles Henry Carroll	<i>New Haven, Conn.</i>	156 Grafton st.
George Philip Cheney	<i>Willimantic, Conn.</i>	925 Howard av.
Joseph Colloso	<i>New Haven, Conn.</i>	106 Wooster st.
Ralph Edward Costanzo	<i>New Haven, Conn.</i>	100 Greene st.
Lawrence Dennis Cremin	<i>New York City</i>	88 Park st.
George Henry Dalton	<i>New Britain, Conn.</i>	126 Ward st.
Edward John Davin	<i>New York City</i>	470 FW.
Alphonso Joseph DeLiguori	<i>New Haven, Conn.</i>	121 York st.
Charles William Depping	<i>Westfield, Mass.</i>	371 Crown st.
Roscius Irving Downs	<i>Ansonia, Conn.</i>	Ansonia
Milton Leopold Dryfus	<i>New Haven, Conn.</i>	85 Arch st.
Morris Aaron Dubroff	<i>Brooklyn, N. Y.</i>	911 Howard av.
Edward Thomas Falsey	<i>New Haven, Conn.</i>	174 Clay st.
Thomas Alexander Fraser	<i>New Haven, Conn.</i>	220 Edgewood av.
Harry Fried	<i>New Haven, Conn.</i>	226 Commerce st.
Inglis Folger Frost	<i>Germantown, Pa.</i>	88 Park st.
George Burroughs Garlick	<i>Bridgeport, Conn.</i>	189 F.
Francis Emil Gessner	<i>New Haven, Conn.</i>	150 Bradley st.
Albert Elias Goldstein	<i>New Haven, Conn.</i>	37 Silver st.
Jacques Henry Green	<i>Waterbury, Conn.</i>	356 Crown st.
Abraham Benjamin Gross	<i>Hartford, Conn.</i>	35 Broad st.
George Edward Harhen	<i>New Haven, Conn.</i>	274 James st.

Paul Difrancesca Hippolitus	New Haven, Conn.	268 Washington av.
Isao Hirata	Fukuoka, Japan	113 Park st.
Herman Max Hurwitz	Hartford, Conn.	77 Washington av.
Jefferson Gatherford Ish, Jr.	Little Rock, Ark.	658 W. D.
Francis Bates Jennings	Brooklyn, N. Y.	470 FW.
Arthur Edward Johnson	Ansonia, Conn.	Ansonia
Edward Harry Kirschbaum	Waterbury, Conn.	585 Howard av.
Frederick Patrick Lee	New Britain, Conn.	1081 Chapel st.
Philip Levey	New Haven, Conn.	17 Vernon st.
Joseph James Lynch, B.A.	Chicago, Ill.	Bridgeport
St. Ignatius College 1908		
James Andrew MacNamara	New Haven, Conn.	111 Greenwood st.
Joseph Maroon	Woodstock, Conn.	142 Dwight st.
Joseph Francis O'Brien	Meriden, Conn.	Meriden
William Henry Joseph O'Brien, PH.B.	New Haven, Conn.	438 Oak pl.
Yale University 1908		
William Herbert Ordway, Jr.	Chicopee, Mass.	371 Crown st.
Arthur Kirk Owen	Topeka, Kans.	8 Prospect pl.
George DuBois Proctor	Randolph, Mass.	293 York st.
William Francis Regan	Revere, Mass.	90 C.
Edward Lewis Rochfort	New Haven, Conn.	72 Edwards st.
Platt Harrison Rogers	Danbury, Conn.	9 Library st.
Raymond Harrison Ryder	Waterbury, Conn.	371 Crown st.
Ernest Segnalla	New Haven, Conn.	516 Chapel st.
David Parker Smith	Meriden, Conn.	223 F.
Joel Andrew Sperry, 2d	New Haven, Conn.	173 Ellsworth av.
Theodore LeRoy Story	Norwich, Conn.	7 Library st.
Grover Cleveland Sweet	New Haven, Conn.	710 Howard av.
Anthony Paul Vastola	New Haven, Conn.	21 Greene st.
William Little Wallace	New Haven, Conn.	151 Canner st.
Herman Robert White	New Haven, Conn.	416 Oak st.

FIRST YEAR CLASS, 57

SPECIAL STUDENTS

Stewart Woods Reid	Toronto, Canada	1044 Chapel st.
Raymond Joseph Schweizer	New York City	69 v.
Paul Galpin Shipley	New Haven, Conn.	3 University pl.

SPECIAL STUDENTS, 3

SUMMARY

SENIOR CLASS	.	.	.	.	15
JUNIOR CLASS	.	.	.	.	35
SECOND YEAR CLASS	.	.	.	.	30
FIRST YEAR CLASS	.	.	.	.	57
SPECIAL STUDENTS	.	.	.	.	3
					140

**DEPARTMENT OF LAW**  
**(YALE LAW SCHOOL)**  
**GRADUATE CLASS**

Antonio Noble de las Alas, LL.B.	<i>Taal, P. I.</i>	609 E. D.
Indiana University 1908		
Attorney at Law		
John Quincy Ames, LL.B.	<i>Brooklyn, Wisc.</i>	152 Temple st.
Yale University 1908		
Attorney at Law		
William Andrew Bree, LL.B.	<i>New Haven, Conn.</i>	712 State st.
Yale University 1908		
Attorney at Law		
Eskil Constantine Carlson, LL.B.	<i>Des Moines, Ia.</i>	57 Grove st.
Drake University 1908		
Attorney at Law		
Julius Cohn, LL.B.	<i>Fort Scott, Kans.</i>	55 Prospect st.
University of Kansas 1908		
Attorney at Law		
Joseph Irving Davidson, LL.B.	<i>Pittsburg, Pa.</i>	104 York sq.
Yale University 1908		
George Richard Holahan, Jr., M.L.	<i>Brooklyn, N. Y.</i>	333 York st.
St. Lawrence University 1908		
Jay V. Holmes, LL.B.	<i>La Belle, Mo.</i>	262 York st.
University of Missouri 1908		
Attorney at Law		
Francis Dustin Hurtt, LL.B.	<i>New York City</i>	661 W. D.
Yale University 1907		
Attorney at Law		
Frank Norton Jacks, LL.B.	<i>Des Moines, Ia.</i>	396 Elm st.
Drake University 1908		
Attorney at Law		
James Irvin Kenyon, LL.B.	<i>Waukee, Ia.</i>	17 Lake pl.
Drake University 1908		
Attorney at Law		
Charles Joseph Martin, LL.B.	<i>West Haven, Conn.</i>	95 Main st., West Haven
Yale University 1908		
Attorney at Law		
Wayne Montgomery Musgrave, LL.B.	<i>New York City</i>	152 Temple st.
New York University 1899,		
M.L. Yale University 1906		
Attorney at Law		
Walter Watts Patterson, B.A.	<i>Columbus, Ga.</i>	11 Dixwell av.
University of Georgia 1905,		
LL.B. George Washington University 1908		
Attorney at Law		
Frederick Lord Perry, LL.B.	<i>New Haven, Conn.</i>	68 Dwight st.
Yale University 1908		
Attorney at Law		

Vernon Calvin Randolph, LL.B. University of Michigan 1907 Attorney at Law	Chicago, Ill.	364 York st.
John Charles Rogers, LL.B. Cincinnati Law School 1895 Attorney at Law	Cincinnati, O.	53 Prospect st.
John Jesse Rolofson, Jr., LL.B. Illinois Wesleyan University 1908 Attorney at Law	Wapello, Ill.	364 York st.
Proceso Gonzales Sanchez, LL.B. Indiana University 1908 Attorney at Law	Concepcion, P. I.	609 E. D.
Ernst Ubach, J.U.D. University of Leipzig 1903	Cologne, Germany	265 Orange st.

## GRADUATE CLASS, 20

## THIRD YEAR CLASS

Rafael Martinez Alvarez, LL.B. Union University 1908	San Juan, Porto Rico	921 Howard av.
Jesse Franklin Anderson	Maryville, Mo.	385 Orange st.
Alfred Winchester Andrews	East Haven, Conn.	East Haven
Earle Andrew Barker	Branford, Conn.	Branford
Frank Barnes	Norwich, N. Y.	423 Temple st.
John Robert Beecher	West Redding, Conn.	105 Park st.
William Cooke Beers, PH.B. Yale University 1895	New Haven, Conn.	279 Willow st.
Ralph Culver Bennett, B.A. Yale University 1906, M.A. Illinois Wesleyan University 1908	Chicago, Ill.	118 York st.
Joseph A. Bergin	Waterbury, Conn.	9 Library st.
Henry Winchester Bickford	Memphis, Tenn.	264 York st.
John B. Brenza, B.A. Valparaiso University 1907, LL.B. 1908	Nanticoke, Pa.	152 Temple st.
Henry Joseph Calnen	Hartford, Conn.	128 W.
Harry Anthony Campbell	Kane, Pa.	36 Elm st.
John Lyons Cashel, LL.B. North Dakota University 1907	Grafton, N. D.	124 Wall st.
Arthur Woodburne Chambers	New Haven, Conn.	173 Sherman av.
Franklin Willard Cohen	Ansonia, Conn.	163 York st.
Arthur Earl Conner	Walton, N. Y.	674 W. D.
Joseph Leo Connor	Manchester, N. H.	36 Elm st.
Arthur Irving Cook	Waterbury, Conn.	333 York st.
Theodore Marburg Crisp	New York City	36 Elm st.
William James Cross, LL.B. University of Chattanooga 1908	Spokane, Wash.	1023 Yale P. O.
Charles Rollin Crossett, Jr.	Salem, Mass.	130 Wall st.

Joseph Earl Daily	<i>Chillicothe, Ill.</i>	289 York st.
Mitchell Leon Danforth	<i>Grand Rapids, Mich.</i>	293 York st.
Edward Chellis Daoust	<i>Defiance, O.</i>	180 v-s.
Ernest Curt Deicke, LL.B.	<i>Milwaukee, Wisc.</i>	105 Park st.
Grant University 1906, Detroit College of Law 1908 Attorney at Law		
Ernest Walter Deicke, LL.B.	<i>Milwaukee, Wisc.</i>	105 Park st.
University of Chattanooga 1908 Attorney at Law		
Henry Fleischner, 2d, B.A.	<i>New Haven, Conn.</i>	151 Bradley st.
Yale University 1907		
Lorin Henry Gates, B.A.	<i>Thomaston, Conn.</i>	226 F.
Yale University 1907		
Max Fullmore Goldstein, B.L.	<i>Columbus, Ga.</i>	152 Temple st.
University of Georgia 1906 Attorney at Law		
William Emil Greenbaum	<i>Bridgeport, Conn.</i>	153 York st.
Henry Herbert Harbison	<i>Dayton, O.</i>	80 c.
Henry Heyer, LL.B.	<i>Wilmington, N. C.</i>	911 Howard av.
University of North Carolina 1908 Attorney at Law		
Stanton Higgins	<i>New Haven, Conn.</i>	19 Broad st.
Attorney at Law		
William Henry Hitchings	<i>New Haven, Conn.</i>	313 Howard av.
Ernest Franklin Hodgdon	<i>Townsend, Vt.</i>	333 York st.
Thomas Hull Holcombe, B.L.	<i>Fort Branch, Ind.</i>	159 Elm st.
University of Georgia 1908 Attorney at Law		
Perry Joseph Hollandersky	<i>New London, Conn.</i>	37 Lake pl.
Loring Revere Hoover	<i>Chicago, Ill.</i>	124 Prospect st.
Stephen Goodloe Jackson, B.S.	<i>Janeleu, W. Va.</i>	126 Wall st.
W. Va. University 1907, LL.B. 1908 Attorney at Law		
Joshua Edmund James	<i>Ocean View, Del.</i>	361 Elm st.
Cheney Church Jones, B.A.	<i>Trenton, Nebr.</i>	1233 Chapel st.
Doane College 1904		
Henry Philip Jones, B.L.	<i>Waynesboro, Ga.</i>	128 High st.
University of Georgia 1908 Attorney at Law		
Matthew Patrick Kelly	<i>Windsor Locks, Conn.</i>	111 Greenwood st.
Remsen Porter King, B.L.	<i>Atlanta, Ga.</i>	128 High st.
University of Georgia 1908 Attorney at Law		
Clayton Leopold Klein	<i>Union City, Conn.</i>	199 York st.
William James Larkin, Jr., B.A.	<i>Waterbury, Conn.</i>	36 Elm st.
Yale University 1907		
Augustus William Lohmann, Jr., LL.B.	<i>Chattanooga, Tenn.</i>	
University of Chattanooga 1908		1044 Chapel st.



Edward Robert McGlynn	<i>Orange, N. J.</i>	36 Elm st.
J. Donald McGregor	<i>Newark, N. J.</i>	1 Crown st.
Raymond Peter McNulty	<i>Brooklyn, N. Y.</i>	
Rolla Hunter McQuiston	<i>Butler, Pa.</i>	143 L.
William Francis Mangan	<i>New Britain, Conn.</i>	New Britain
Humbert Emanuel Mangini	<i>Waterbury, Conn.</i>	105 Park st.
Wesley Cornell Martin	<i>Providence, R. I.</i>	264 York st.
John William Mason, Jr., B.A.	<i>Fairmont, W. Va.</i>	119 Wall st.
W. Va. University 1908		
Ivan Lee Morehouse	<i>Stratford, Conn.</i>	Stratford
Arthur Eugene Moreton	<i>Salt Lake City, Utah</i>	698 W. D.
Attorney at Law		
John Leo Murphy	<i>Steelton, Pa.</i>	Yale P. O.
Denis Thomas O'Brien	<i>Meriden, Conn.</i>	1081 Chapel st.
Charles Sylvester O'Connor	<i>Waterbury, Conn.</i>	9 Library st.
James Francis T. O'Connor, B.A.	<i>Grand Forks, N. D.</i>	59 Prospect st.
University of North Dakota 1907, LL.B. 1908		
Attorney at Law		
Henry O'Keefe, LL.B.	<i>Grand Forks, N. D.</i>	59 Prospect st.
University of North Dakota 1908		
Walter George Pond	<i>Branford, Conn.</i>	1081 Chapel st.
John Randall Powelson	<i>Norwich, Conn.</i>	119 Wall st.
Edward Jerome Quinlan, B.A.	<i>New Haven, Conn.</i>	542 George st.
Yale University 1907		
James Jackson Ragan, B.S.	<i>Atlanta, Ga.</i>	36 Elm st.
University of Georgia 1906		
Henry Ralph Ringe, B.S.	<i>Three Tuns, Pa.</i>	108 High st.
University of Penna. 1906		
Lee Roy Robbins	<i>Norwich, Conn.</i>	119 Wall st.
Randolph Preston Rogers, B.A.	<i>Fort Smith, Ark.</i>	36 Elm st.
Yale University 1907		
Attorney at Law		
John Hunting Romme, LL.B.	<i>DeLand, Fla.</i>	334 Center st., West Haven
John B. Stetson University 1908		
William Miller Ruffcorn	<i>Ashland, O.</i>	366 Whalley av.
Abraham Schneider	<i>Monticello, N. Y.</i>	397 Temple st.
Frederick A. Shaffer, B.A.	<i>Cochran, Pa.</i>	1505 Chapel st.
Allegheny College 1906		
Ephraim Samuel Shill	<i>New York City</i>	333 York st.
Gerald Freeman Sibley	<i>Cuba, N. Y.</i>	119 Wall st.
Alexander Wyly Smith, Jr., B.A.	<i>Atlanta, Ga.</i>	36 Elm st.
Yale University 1907		
Richard Edgar Stillman	<i>Pensacola, Fla.</i>	271 Crown st.
Philip Manual Thorne, Jr.	<i>Charleston, S. C.</i>	658 W. D.
Pedro Tuason, B.L.	<i>Balanga, P. I.</i>	373 Crown st.
Georgetown University 1908		
John Francis Vail	<i>Hartford, Conn.</i>	128 W.

William Webb, B.A. Carthage College 1906	Nauvoo, Ill.	36 Elm st.
George LeRoy Weekes	Harwich, Mass.	78 Trumbull st.
William Frederic Weeks Attorney at Law	Arlington, Texas	59 Prospect st.
Alexander Weinstein, LL.B. New York University 1908	New York City	163 York st.
Hermann John Weisman	Union City, Conn.	199 York st.
Francis Patrick Welch	Norwich, Conn.	423 Temple st.
Edward Colpitts Weyman, B.A. University of New Brunswick 1902, B.A. Harvard University 1903, M.A. Yale University 1905	Apoahqui, N. B.	189 F.
Harry Faber White	Cambridge Springs, Pa.	1505 Chapel st.
Frederick Holme Wiggin, Jr., B.A. Yale University 1904	New Haven, Conn.	563 Orange st.
David Arthur Wilson	Hartford, Conn.	128 W.

## THIRD YEAR CLASS, 91

## SECOND YEAR CLASS

John Stanley Addis	New Milford, Conn.	677 W. D.
Herman Alofsin, 2d, B.A. Yale University 1908	Norwich, Conn.	163 York st.
Samuel Alpert, B.A. Yale University 1908	New Haven, Conn.	96 Washington av.
Murray Mansfield Ashbaugh	Washington, D. C.	107 W.
Abram Joseph Bachner	Gloversville, N. Y.	391 B.
James Dugdale Baird, B.A. Carthage College 1907	Carthage, Ill.	155 Elm st.
Howard Clifton Bates	Providence, R. I.	139 W.
Theodore Wright Bisbee	Brockton, Mass.	384 B.
Howard Francis Bishop, B.A. Yale University 1907	Chicago, Ill.	1087 Chapel st.
Abram Fremont Blanchard	Meriden, Conn.	Meriden
Samuel William Botwick	New Haven, Conn.	24 Arch st.
Samuel Henry Bowman, Jr.	Minneapolis, Minn.	36 Elm st.
Hopkins Payne Breazeale	Natchitoches, La.	702 W. D.
Harry Burnstine	Bridgeport, Conn.	Bridgeport
Alexander Bass Campbell	Worcester, Mass.	70 Trumbull st.
Roy Alexander Cheney	Syracuse, N. Y.	36 Elm st.
Shunsan Chenchang Chu	Hankow, China	29 Eld st.
Frederick Franklin Coeller	New Haven, Conn.	589 Howard av.
William Ernest Collins, B.A. Yale University 1907	Livingston, N. J.	1076 Chapel st.
Arthur Milton Comley, B.A. Yale University 1907	Bridgeport, Conn.	Bridgeport
Arthur Leon Connor	Holyoke, Mass.	114 High st.

James Edward Connor, Jr.	<i>New Haven, Conn.</i>	270 Lloyd st.
John Francis Conway	<i>New York City</i>	1081 Chapel st.
George A. Corr	<i>Waterbury, Conn.</i>	281 Crown st.
Peter Tracy Dondlinger, B.A.	<i>Mitchell, S. D.</i>	39 Lynwood pl.
National Normal University 1899.		
PH.D. Yale University 1904		
Louis Anthony Faverio	<i>Westerly, R. I.</i>	299 York st.
William Malcolm Foord	<i>Cazenovia, N. Y.</i>	189 v-s.
Lea David Freeman	<i>New Orleans, La.</i>	271 Crown st.
Leo Gallagher, B.A.	<i>El Paso, Texas</i>	537 Orange st.
Catholic University of America 1907		
Edward Earle Garlick	<i>Bridgeport, Conn.</i>	189 F.
Lewis David Gross	<i>Hartford, Conn.</i>	95 Lyon st.
Anthony Haines	<i>Rockford, Ill.</i>	70 Trumbull st.
George Hains, Jr., B.A.	<i>Augusta, Ga.</i>	137 Dwight st.
University of Georgia 1906		
Clarence Russell Hall, B.A.	<i>Woodstock, Conn.</i>	1076 Chapel st.
Yale University 1907		
Frederick Albert Hanson	<i>Seattle, Wash.</i>	126 High st.
Charles Edwin Hart, Jr., B.A.	<i>New Britain, Conn.</i>	New Britain
Yale University 1907		
Eldon Lewis Hilditch	<i>Thompsonville, Conn.</i>	7 Library st.
Maximilian Carl Hoegen	<i>New Haven, Conn.</i>	29 Eld st.
Harry Orlando Hoyt	<i>Minneapolis, Minn.</i>	119 Wall st.
Charles Venantius James	<i>Norwich, Conn.</i>	141 Greene st.
Matthew Henry Kenealy	<i>Stamford, Conn.</i>	707 W. D.
William John Kennedy	<i>New Haven, Conn.</i>	51 Clark st.
Theodore Engelmann Kircher, PH.B.	<i>Belleville, Ill.</i>	1076 Chapel st.
Yale University 1907		
Russell Dyer Kittredge, B.A.	<i>Westfield, Mass.</i>	192 F.
Yale University 1908		
Arthur Burke Koontz	<i>Kesslers Cross Lanes, W. Va.</i>	239 D.
John Baptist Lacava	<i>Hartford, Conn.</i>	Hartford
John Harold Lancaster	<i>Litchfield, Conn.</i>	124 Wall st.
S. Beekman Laub	<i>Natchez, Miss.</i>	107 York st.
Alexander Lennox	<i>Hartford, Conn.</i>	363 WH.
Ralph Hayford Lincoln	<i>Fall River, Mass.</i>	1081 Chapel st.
John Daniel MacKay, B.A.	<i>Saticoy, Cal.</i>	239 D.
Santa Clara College 1907		
Thomas Francis McGrath	<i>Waterbury, Conn.</i>	925 Howard av.
George Henry Mahlstedt	<i>New Rochelle, N. Y.</i>	36 Elm st.
James Lewis Malcolm	<i>Catskill, N. Y.</i>	36 Elm st.
Thomas Connelly Malley	<i>Springfield, Mass.</i>	1366 Chapel st.
Arthur Lauren Maltby	<i>Belvue, Kans.</i>	107 W.
Henry Jacob Marks	<i>Hartford, Conn.</i>	262 York st.
George Gordon Mead	<i>Scranton, Pa.</i>	108 W.

Austin Cook Merrill, B.A. Yale University 1908	Carthage, N. Y.	119 Wall st.
George Washington Myers	Collinsville, Conn.	262 York st.
Bentley Nelson	West Hartford, Conn.	703 W. D.
Edwin Thomas Noel	Nashville, Tenn.	124 W.
John Hopkins Noel	Nashville, Tenn.	271 Crown st.
Oscar French Noel	Nashville, Tenn.	271 Crown st.
John Vincent O'Brien	New Haven, Conn.	783 Orange st.
Benedict Mallon O'Connell	Wallingford, Conn.	Wallingford
Timothy Francis O'Connell	New York City	319 Wallace st.
Neilson Olcott, 2d	New York City	271 Crown st.
James Justin Palmer, Jr.	New Haven, Conn.	55 Redfield st.
Charles Henry Platt	Brooklyn, N. Y.	128 High st.
Charles Vernon Porter, Jr.	Natchitoches, La.	702 W. D.
William Carroll Porter	Norfolk, Conn.	703 W. D.
Michael James Quinn	Meriden, Conn.	216 Cedar st.
Bernard Eugene Reilly	Brockton, Mass.	262 York st.
Alan Robert Rosenberg	Brooklyn, N. Y.	262 York st.
Samuel Rosenthal	Hartford, Conn.	53 Prospect st.
Robert Stanley Ruthven	Buffalo, N. Y.	262 York st.
Meyer Merwin Shapiro	New Haven, Conn.	288 Grand av.
Bernard L. Sheridan, B.A. University of Kansas 1908	Paola, Kans.	55 Prospect st.
Abraham Herman Slavin	Springfield, Mass.	21 Lyon st.
Mark Carleton Smith	Altoona, Pa.	674 W. D.
Wilbur Rush Smith, Jr.	Lexington, Ky.	271 Crown st.
Allen Spangler	Mercersburg, Pa.	154 L.
Arthur Clinton Spurr	Valley City, N. D.	311 Crown st.
John Lawrence Stivers	Montrose, Colo.	719 W. D.
George Andrews Stone	New Haven, Conn.	635 Quinnipiac av.
Earl Augustine Sweeney	Dedham, Mass.	85 Sachem st.
Edward Francis Sweeney, B.A. Yale University 1907	Naugatuck, Conn.	77 C.
James Beirne Sweeney	Keene, N. H.	333 York st.
Robert DeForest Taylor	Griffin, Ga.	159 Elm st.
Thomas Anthony Thacher, B.A. Yale University 1908	New Haven, Conn.	77 Mansfield st.
John Francis Tobin	Waterbury, Conn.	262 York st.
Benjamin W. Tye, LL.B. Cumberland University 1908	Atlanta, Ga.	128 High st.
Thomas Marion Van Cleave, B.A. University of Kansas 1908	Kansas City, Kans.	279 Crown st.
Charles Wesley Winslow	Brooklyn, N. Y.	311 Crown st.
Aaron Wittstein, B.A. Yale University 1904, M.A. 1905	Bridgeport, Conn.	Bridgeport

Henry Herman Wittstein, PH.B.	Bridgeport, Conn.	Bridgeport
Yale University 1907		
Samuel Joseph Witz	New Haven, Conn.	719 W. D.
Charles Doris Wood	New York City	110 Wall st.
Joseph George Woods	New Britain, Conn.	New Britain
Charles Kenneth Wynne	New Haven, Conn.	327 Edgewood av.
William Morris Ziff	Bridgeport, Conn.	Bridgeport

## SECOND YEAR CLASS, 102

## FIRST YEAR CLASS

Moses Charles Abuza	Hartford, Conn.	279 Crown st.
Leonard Henry Alkire	Denver, Colo.	264 York st.
William Taylor Andrews	Noroton, Conn.	Noroton
Edward Kazlitt Arvine, PH.B.	New Haven, Conn.	313 Humphrey st.
Yale University 1903		
Frank Garwood Attwood	Woodbury, Conn.	158 Whalley av.
Daniel James Bailey	New Haven, Conn.	255 Columbus av.
Foster Bailey	Fitchburg, Mass.	7 Park st.
John Joseph Bailey	Waterbury, Conn.	152 Temple st.
Arthur James Barnacle	New Haven, Conn.	51 Bishop st.
Alfred Barton, Jr.	Brooklyn, N. Y.	333 York st.
James Anthony Beck	Bridgeport, Conn.	Bridgeport
Arthur Isaac Beilin	Easton, Pa.	53 Prospect st.
Roy K. Benner	Hazleton, Pa.	131 W.
Ernest Berger	Bridgeport, Conn.	Bridgeport
Edward Earl Berney	Altoona, Pa.	672 W. D.
Charles E. Bittenger	York, Pa.	395 Temple st.
Eugene Hart Brady	Derby, Conn.	136 W.
Francis Joseph Breen	Bridgeport, Conn.	Bridgeport
Haven Stowe Bullard	Burlington, Vt.	199 York st.
Arthur W. Burgess	New Haven, Conn.	871 Grand av.
John Hugus Caldwell	Omaha, Nebr.	266 York st.
John Henry Casey	Bridgeport, Conn.	Bridgeport
Clement Dixon Cates	Richmond, Ind.	1076 Chapel st.
Francis Deraisines Childs	Hartford, Conn.	Hartford
Edwin Armstrong Clark	New Haven, Conn.	300 Howard av.
James Beale Cohen	Richmond, Va.	128 Wall st.
Philip David Connor	New Haven, Conn.	162 Blatchley av.
Arthur Corbishley	Fall River, Mass.	720 W. D.
Henry Dyer Cowles, Jr.	New Haven, Conn.	48 Daggett st.
John Harry Crippen	Galeton, Pa.	126 Wall st.
James Van Devanter Crisp	New York City	405 Temple st.
Eugene Almon Culbertson	Ekaterinalar, Russia	216 Orange st.
Neil Perry Cullom, B.S.	Waco, Texas	271 Crown st.
Vanderbilt University 1908		
Morris James Dale	Cincinnati, O.	182 v-s.

Charles Wesley Darling	<i>Center Moriches, N. Y.</i>	199 York st.
Herbert Frederick Day	<i>Granby, Conn.</i>	81 c.
Harry Malcom Denton, B.S.	<i>Corydon, Ky.</i>	361 Orange st.
Western Kentucky State Normal School, 1904, B.A. 1907		
Robert Treat Dewell	<i>New Haven, Conn.</i>	70 Howe st.
George Robert Dexter	<i>Los Angeles, Cal.</i>	86 Howe st.
Deweese Wood Dilworth	<i>New York City</i>	242 York st.
Edward Joseph Donovan	<i>Quincy, Mass.</i>	81 c.
Russell Keresey Dougherty	<i>New York City</i>	18 College st.
Fritz Leopold Dressler	<i>New York City</i>	333 York st.
Roy Leslie Duncan	<i>Hartford, Conn.</i>	82 Wall st.
Robert Ernest Dwyer	<i>Emma, Colo.</i>	8 Prospect pl.
LeRoy Emerson Eastman, B.L.	<i>Ottawa, O.</i>	124 Wall st.
Berea College 1908		
William R. Elliott	<i>Carroll, Ia.</i>	82 Whalley av.
Thomas Elmes, PH.B.	<i>Derby, Conn.</i>	27 Center st.
Yale University 1906		
Eugene Francis Farley, B.A.	<i>Derby, Conn.</i>	107 York st.
Yale University 1900		
Justus John Fennel	<i>Stamford, Conn.</i>	Stamford
Robert Ross Ferrett	<i>Bridgeport, Conn.</i>	Bridgeport
Charles Milton Fessenden, B.A.	<i>Stamford, Conn.</i>	680 W. D.
Yale University 1907		
Roscoe Hersey Finch	<i>St. Paul, Minn.</i>	389 Temple st.
George Nathaniel Finkelstone	<i>Bridgeport, Conn.</i>	Bridgeport
Lawrence Shepherd Finkelstone	<i>Bridgeport, Conn.</i>	Bridgeport
Samuel Banon Flauman	<i>New York City</i>	53 Prince st.
Robert Adelbert Foley	<i>Cortland, N. Y.</i>	159 Lawrence st.
Walter Francis Foley	<i>Bridgeport, Conn.</i>	Bridgeport
Kern Blaine Fontaine	<i>Minneapolis, Minn.</i>	119 Wall st.
Robert Howard Gamble	<i>Jacksonville, Fla.</i>	119 Wall st.
Harry Daniel Gibbons, B.A.	<i>Chicago, Ill.</i>	262 York st.
De Pauw University 1908		
Ira Benjamin Glueckfeld	<i>Newark, N. J.</i>	29 Hallock st.
Charles Raymond Goddard	<i>Hartford, Conn.</i>	289 York st.
Harry Allison Goldstein	<i>Bridgeport, Conn.</i>	Bridgeport
William Harold Goodman	<i>New Haven, Conn.</i>	340 George st.
Samuel Greenburg	<i>New Haven, Conn.</i>	21 Spruce st.
Raymond Edmund Hackett	<i>New Haven, Conn.</i>	264 Howard av.
Ralph Haden, B.A.	<i>Frankford, Mo.</i>	17 Pearl st.
Christian University 1908		
Seymour Dwight Hall	<i>Wallingford, Conn.</i>	Wallingford
Abe Arthur Halle	<i>Memphis, Tenn.</i>	564 George st.
Alexander Hamilton	<i>Great Barrington, Mass.</i>	152 Temple st.
Loren Edward Hannestad	<i>Makawao, Hawaii</i>	373 Crown st.
William Augustus Hatfield	<i>Brooklyn, N. Y.</i>	672 W. D.

Daniel Francis Hickey	<i>Stamford, Conn.</i>	Stamford
Henry Cruise Higgins	<i>New Haven, Conn.</i>	19 Broad st.
Israel Joseph Hoffman	<i>New Haven, Conn.</i>	103 Dixwell av.
Francis Joseph Hogan	<i>Waterbury, Conn.</i>	283 Crown st.
Herman Noel Horwitz	<i>New Haven, Conn.</i>	26 Elliott st.
John Theodore Ludeling Hubbard	<i>Bridgeport, Conn.</i>	242 York st.
Frank Roy Hurlbutt	<i>Corona, L. I.</i>	333 York st.
Alfred A. Hutkoff	<i>New York City</i>	413 Temple st.
Arunah Crampton Hyde	<i>West Haven, Conn.</i>	429 Union av.
Ernest Alexander Inglis, PH.B.	<i>Middletown, Conn.</i>	283 Crown st.
Wesleyan University 1908		
Michael Jannini	<i>Boston, Mass.</i>	792 Grand av.
Charles Edward Julin, B.A.	<i>New Haven, Conn.</i>	7 University pl.
Yale University 1899		
Calvin K. Kazanjian	<i>New Haven, Conn.</i>	294 Orchard st.
Edward John Kenealy	<i>Stamford, Conn.</i>	Stamford
William Frederick Douglas Kilpatrick	<i>Bridgeport, Conn.</i>	Bridgeport
Joseph Irving Kopelman	<i>Hartford, Conn.</i>	53 Prospect st.
Jin Ling Kuan	<i>Shanghai, China</i>	333 York st.
Benjamin Daniel Land	<i>New Haven, Conn.</i>	9 Arch st.
Barney Larkey	<i>Newark, N. J.</i>	159 L.
Hugh Joseph Lavery	<i>Bridgeport, Conn.</i>	Bridgeport
Roy A. Linn, B.A.	<i>Monmouth, Ill.</i>	68 Lake pl.
Monmouth University 1908		
Joseph Andrew Lockhart	<i>Greenwich, Conn.</i>	402 Crown st.
Roger Hall Loughran	<i>Kingston, N. Y.</i>	114 High st.
Luching Yii Tao Lou	<i>Tientsin, China</i>	114 High st.
Samuel Edward McAdam	<i>Lebanon, Pa.</i>	333 York st.
Albert Francis McCarthy	<i>Ansonia, Conn.</i>	Ansonia
Sydney Francis McCreery	<i>New York City</i>	333 York st.
Henry Emmett MacDonald	<i>Freeport, N. Y.</i>	387 Temple st.
Frank Joseph McKay	<i>Holyoke, Mass.</i>	525 P.
Archibald Jerome McKinney	<i>Brooklyn, N. Y.</i>	128 Wall st.
Bernard F. McLain, Jr.	<i>Elizabeth, N. J.</i>	311 York st.
Alexander M. MacLeod	<i>Paterson, N. J.</i>	8 Trumbull st.
Edward Ward Manning	<i>New Haven, Conn.</i>	32 Stevens st.
Joaquin Martinez	<i>New York City</i>	925 Howard av.
Hubert Joseph Mayrand, B.A.	<i>New Haven, Conn.</i>	157 Blatchley av.
Laval University 1907		
Samuel Mellitz	<i>Bridgeport, Conn.</i>	Bridgeport
Arthur Beach Mills	<i>New Haven, Conn.</i>	110 Gilbert av.
Walter Ricketson Mitchell	<i>New Bedford, Mass.</i>	283 Crown st.
Francis Gregory Monahan	<i>New Haven, Conn.</i>	136 Dwight st.
Frederick Edward Morgan	<i>Bridgeport, Conn.</i>	673 W. D.
Leland Christopher Morrow	<i>Pierce, Fla.</i>	373 Crown st.

George William Mueller	<i>Meriden, Conn.</i>	130 Wall st.
Frank Paul Munich	<i>Bridgeport, Conn.</i>	Bridgeport
William George Murray	<i>Jewett City, Conn.</i>	7 Library st.
Kenneth Elwood Nettleton	<i>New Haven, Conn.</i>	29 Huntington st.
John Francis Newman	<i>So. Manchester, Conn.</i>	46 Lake pl.
William Joseph Nolan	<i>Quincy, Mass.</i>	333 York st.
Ernest Francis Oakley, Jr.	<i>Hartford, Conn.</i>	905 Howard av.
Canton Thomas O'Donnell	<i>Denver, Colo.</i>	688 w. d.
Louis Bondurant O'Shaughnessy	<i>New York City</i>	122 Wall st.
Francis Antonio Pallotti, B.A.	<i>Hartford, Conn.</i>	39 Lynwood pl.
Holy Cross College 1908		
James Erwin Parker	<i>Glens Falls, N. Y.</i>	8 Trumbull st.
Alexander Wells Peck	<i>New York City</i>	130 Wall st.
Howard Lucius Peck	<i>Hartford, Conn.</i>	263 Crown st.
Sherman Hickox Perry	<i>Waterbury, Conn.</i>	413 Temple st.
Samuel Barrett Pettingill, Jr., B.A.	<i>Saxtons River, Vt.</i>	119 Park st.
Middlebury College 1908		
Andrew Price	<i>Seattle, Wash.</i>	242 York st.
Elmer Stephen Redick	<i>Omaha, Nebr.</i>	944 Yale P. O.
Fred Albert Reilley	<i>Springfield, Mass.</i>	117 Park st.
John Charles Reilly, Jr.	<i>Derby, Conn.</i>	136 w.
Isadore Wolf Resnik	<i>New Haven, Conn.</i>	243 Washington av.
Charles Maxwell Resnikoff	<i>New Haven, Conn.</i>	57 Hallock st.
Andrew Vincent Riccardi	<i>Utica, N. Y.</i>	138 St. John st.
Josiah Vining Richardson, B.A.	<i>Creston, Ia.</i>	311 York st.
Knox College 1908		
Howard Nathaniel Rogers, B.S.	<i>Sac City, Ia.</i>	82 Whalley av.
Coe College 1908		
Alexander Lewis Rothschild	<i>Hartford, Conn.</i>	333 York st.
George Washington Ruffcorn	<i>Ashland, O.</i>	366 Whalley av.
Samuel Charles Schlein	<i>New Haven, Conn.</i>	78 Hill st.
Arnold Schmidt, B.A.	<i>Manchester, Conn.</i>	75 C.
Yale University 1908		
Charles Howard Shank, Jr.	<i>Crawfordsville, Ind.</i>	
John Henry Sheehan	<i>New Haven, Conn.</i>	264 Peck st.
Eben Frank Sherwood	<i>Hancock, N. Y.</i>	114 High st.
Allan Gleason Siems	<i>St. Paul, Minn.</i>	200 York st.
Morris M. Siller	<i>New Haven, Conn.</i>	70 Prince st.
Frank J. Slattery	<i>Skaneateles, N. Y.</i>	159 L.
Arthur Eslie Smith	<i>Bridgeport, Conn.</i>	Bridgeport
Francis Wager Smith	<i>Albany, N. Y.</i>	289 George st.
John Cotton Smith	<i>Washington, D. C.</i>	697 w. d.
Jacob Spitzer	<i>Perth Amboy, N. Y.</i>	333 York st.
Joseph Benson Stevens	<i>Niles, O.</i>	395 Temple st.
Nathan Beach Stone	<i>New Haven, Conn.</i>	3 Park st.



Jacob Suchawolsky	<i>Hartford, Conn.</i>	267 Grand av.
William Sukloff	<i>New Haven, Conn.</i>	69 Arch st.
Israel William Tamsky	<i>New Haven, Conn.</i>	274 Hamilton st.
Reuben Taylor	<i>Norwich, Conn.</i>	46 High st.
Frederic William Thomann	<i>New York City</i>	159 L.
Julian Sophus Thompson	<i>Barnesville, Minn.</i>	262 York st.
Lynn H. Thompson	<i>Salt Lake City, Utah</i>	1076 Chapel st.
Harold Edward Tierney	<i>Englewood, N. J.</i>	131 W.
Levi Nelson Tillotson, B.L.	<i>Mitchell, S. D.</i>	18 Dwight st.
Dakota Wesleyan University 1907		
Daniel Robert Triplehorn	<i>Bluffton, O.</i>	35 High st.
Henry Fallow Vaughan	<i>Scranton, Pa.</i>	1081 Chapel st.
Jules Valenstein	<i>New York City</i>	333 York st.
William Luxon Wallace	<i>Richmond, Ky.</i>	387 Temple st.
John Chester Warnock	<i>Meriden, Conn.</i>	1083 Chapel st.
William Warnock	<i>Keswick, Ia.</i>	8 Prospect pl.
Benjamin Joseph Weinstein	<i>Bridgeport, Conn.</i>	Bridgeport
Sheridan Ticknor Whitaker	<i>New Haven, Conn.</i>	395 Howard av.
Alfred John White	<i>Springfield, Mass.</i>	393 Temple st.
Charles Herbert Whitman	<i>So. Weymouth, Mass.</i>	7 Park st.
Stephen Whitney, PH.B.	<i>New Haven, Conn.</i>	405 Whitney av.
Yale University 1908		
Stephen Alexander Wolongiewicz	<i>Scranton, Pa.</i>	720 W. D.
Arthur Wren, B.A.	<i>Bridgeport, Conn.</i>	Bridgeport
Yale University 1908		
Robert Adolph Wurzburg	<i>Grand Rapids, Mich.</i>	50 Platt st.
Elmer J. Wyckoff	<i>Interlaken, N. Y.</i>	1169 Chapel st.
Spafford Frank Wyckoff	<i>Stamford, Conn.</i>	152 Temple st.
William Frederick de Zaldo, B.A.	<i>New York City</i>	108 High st.
Belen College 1908		
Max Zimmerman	<i>Holyoke, Mass.</i>	46 High st.

## FIRST YEAR CLASS, 181

## SPECIAL CLASS

Maurice Fitzhardinge Berkeley	<i>Richmond, Va.</i>	108 High st.
Lionell F. Burgess	<i>Hartford, Conn.</i>	24 Arch st.
Henry Seagrave Carrington	<i>New York City</i>	110 Wall st.
James Scully Casey	<i>New London, Conn.</i>	37 Lake pl.
Arthur Denton Colyer	<i>Perth Amboy, N. J.</i>	7 Library st.
George Edward Copenhaver, B.A.	<i>Bristol, Tenn.</i>	140 W.
Roanoke College 1908		
William Virgil Cowan	<i>Fort Jones, Cal.</i>	142 Edgewood av.
John Cunliffe	<i>Branford, Conn.</i>	Branford
John Luther Dickson, B.D.	<i>Madison, Conn.</i>	Madison
Yale University 1908		
Charles Joseph Donahue	<i>New Haven, Conn.</i>	245 Whalley av.

Joseph Francis Dutton	<i>Forestville, Conn.</i>	262 York st.
Samuel Kenneth Gibbs	<i>New Haven, Conn.</i>	152 Temple st.
Frank R. Graves	<i>St. Louis, Mo.</i>	159 Elm st.
James Edward Gross	<i>Hartford, Conn.</i>	46 High st.
Asa Walter Hector	<i>Madison, Conn.</i>	59 Dixwell av.
Earle Chapman Herrick	<i>Norwich, Conn.</i>	74 C.
Robert Guthrie Jordan	<i>New Haven, Conn.</i>	36 Mansfield st.
Robert Snyder King	<i>Dayton, O.</i>	131 Grove st.
Rector Lester	<i>Canyon City, Texas</i>	333 York st.
Frederick Richard Manning	<i>So. Manchester, Conn.</i>	287 York st.
David Joseph McCoy	<i>New Haven, Conn.</i>	314 George st.
Howard Leychester Montgomery	<i>Ft. Edward, N. Y.</i>	128 Wall st.
Adelard Morin	<i>Taftville, Conn.</i>	
Frank Hall Myers	<i>Bridgeport, Conn.</i>	Bridgeport
Ralph Andrew Nicholson	<i>Southwick, Mass.</i>	679 Chapel st.
Clarence Paul Parker	<i>Deadwood, S. D.</i>	271 Crown st.
Charles Cornell Reid	<i>New York City</i>	110 Wall st.
Isadore Shapiro	<i>Birmingham, Ala.</i>	333 York st.
Attorney at Law		
Christy B. Skau	<i>Hartford, Conn.</i>	152 Temple st.
Charles Sudarsky	<i>Hartford, Conn.</i>	Hartford
John Joseph Sullivan	<i>New Haven, Conn.</i>	43 Shelter st.
George Napoleon Vidal	<i>Arctic, R. I.</i>	40 Franklin st.
James John Wade	<i>New Haven, Conn.</i>	56 Barnett st.
Walter Wade	<i>Bristol, Conn.</i>	283 Crown st.
Cornelius Bushnell Watson, PH.B.	<i>Huntington, W. Va.</i>	133 College st.
Yale University 1908		
Donald Denison Willcox	<i>Chester, Conn.</i>	208 Everitt st.
George Harold Grant Wing	<i>Boston, Mass.</i>	364 George st.
Samuel Calvin Witherspoon	<i>Oakmont, Pa.</i>	8 Prospect pl.
David Allen Woodroe	<i>Saratoga Springs, N. Y.</i>	
Karl Francis Wurzburg	<i>Grand Rapids, Mich.</i>	50 Pratt st.

SPECIAL STUDENTS, 40

## SUMMARY

GRADUATE CLASS	.	.	.	.	20
THIRD YEAR CLASS	.	.	.	.	91
SECOND YEAR CLASS	.	.	.	.	102
FIRST YEAR CLASS	.	.	.	.	181
SPECIAL STUDENTS	.	.	.	.	40
REGULAR STUDENTS	.	.	.	.	434
STUDENTS FROM OTHER DEPARTMENTS	.	.	.	.	223
TOTAL UNDER INSTRUCTION	.	.	.	.	657

## GENERAL SUMMARY

### OFFICERS

PROFESSORS, including other University Officers	-	123
ASSISTANT PROFESSORS	-	56
INSTRUCTORS, including Tutors, Lecturers, etc.	-	154
ASSISTANTS IN INSTRUCTION	-	70
ASSISTANTS IN ADMINISTRATION	-	82

TOTAL 485

### STUDENTS

#### DEPARTMENT OF PHILOSOPHY AND THE ARTS:

	Enrollment	Total under Instruction
GRADUATE SCHOOL, Resident	- 322	
Non-resident	- 63	385
COLLEGE	- 1273	1559
SHEFFIELD SCIENTIFIC SCHOOL	- 953*	1308
ART SCHOOL	- 47	71
MUSIC SCHOOL	- 95	161
FOREST SCHOOL	- 70	103
	<u>2823</u>	
DEPARTMENT OF THEOLOGY	- 106	124
DEPARTMENT OF MEDICINE	- 140	
DEPARTMENT OF LAW	- 434	657

3503

Deduct for names inserted twice - 69

TOTAL UNIVERSITY REGISTRATION	-	3434
SUMMER SCHOOL OF FORESTRY	-	16

TOTAL RECEIVING INSTRUCTION - 3450

\* Besides 153 graduate students who are members of the Graduate School or Forest School.

## SUMMARY OF STUDENTS BY STATES OR COUNTRIES

Alabama . . . . .	7	Montana . . . . .	6
Alaska . . . . .	1	Nebraska . . . . .	15
Arizona . . . . .	2	New Hampshire . . . . .	17
Arkansas . . . . .	3	New Jersey . . . . .	125
California . . . . .	39	New Mexico . . . . .	2
Colorado . . . . .	30	New York . . . . .	640
Connecticut . . . . .	1180	North Carolina . . . . .	9
Delaware . . . . .	14	North Dakota . . . . .	6
District of Columbia . . . . .	21	Ohio . . . . .	165
Florida . . . . .	11	Oklahoma . . . . .	2
Georgia . . . . .	19	Oregon . . . . .	12
Hawaii . . . . .	5	Pennsylvania . . . . .	211
Idaho . . . . .	1	Philippine Islands . . . . .	6
Illinois . . . . .	137	Rhode Island . . . . .	30
Indiana . . . . .	25	South Carolina . . . . .	4
Iowa . . . . .	33	South Dakota . . . . .	5
Kansas . . . . .	22	Tennessee . . . . .	18
Kentucky . . . . .	22	Texas . . . . .	18
Louisiana . . . . .	14	Utah . . . . .	7
Maine . . . . .	16	Vermont . . . . .	23
Maryland . . . . .	14	Virginia . . . . .	12
Massachusetts . . . . .	207	Washington . . . . .	20
Michigan . . . . .	35	West Virginia . . . . .	13
Minnesota . . . . .	46	Wisconsin . . . . .	18
Mississippi . . . . .	4	Wyoming . . . . .	1
Missouri . . . . .	58		

Argentine Republic . . . . .	1	India . . . . .	2
British Guiana . . . . .	1	Italy . . . . .	1
Canada . . . . .	21	Japan . . . . .	15
China . . . . .	21	Mexico . . . . .	2
Cuba . . . . .	1	Norway . . . . .	1
England . . . . .	4	Porto Rico . . . . .	2
France . . . . .	2	Russia . . . . .	1
Germany . . . . .	2	Sweden . . . . .	2
Hungary . . . . .	1	Turkey . . . . .	8

## SUMMARY OF STUDENTS BY CITIES AND TOWNS

\* [Places represented by five or more students only are mentioned.]

Albany . . . . .	9	Lakeville . . . . .	6
Ansonia . . . . .	25	Los Angeles . . . . .	5
Atlanta . . . . .	8	Louisville . . . . .	6
Auburn (N. Y.) . . . . .	16	Manchester . . . . .	5
Baltimore . . . . .	12	Meriden . . . . .	27
Binghamton . . . . .	5	Middletown (Conn.) . . . . .	6
Boston . . . . .	19	Middletown (O.) . . . . .	5
Branford . . . . .	15	Milford . . . . .	9
Bridgeport . . . . .	75	Milwaukee . . . . .	5
Bristol . . . . .	8	Minneapolis . . . . .	16
Brookline . . . . .	8	Montclair . . . . .	20
Brooklyn (N. Y.) . . . . .	85	Morristown . . . . .	7
Buffalo . . . . .	36	Mt. Vernon (N. Y.) . . . . .	6
Chicago . . . . .	93	Nashville . . . . .	7
Cincinnati . . . . .	37	Naugatuck . . . . .	12
Cleveland . . . . .	36	Newark (N. J.) . . . . .	8
Colorado Springs . . . . .	5	New Britain . . . . .	20
Columbus . . . . .	5	New Haven . . . . .	435
Danbury . . . . .	15	New London . . . . .	11
Davenport (Ia.) . . . . .	6	New Milford . . . . .	5
Dayton . . . . .	5	New Orleans . . . . .	9
Denver . . . . .	20	New Rochelle . . . . .	8
Derby . . . . .	24	New York . . . . .	236
Detroit . . . . .	13	North Haven . . . . .	5
East Orange (N. J.) . . . . .	7	Norwalk . . . . .	8
Englewood . . . . .	5	Norwich . . . . .	33
Erie . . . . .	6	Omaha . . . . .	5
Evanston . . . . .	7	Orange (N. J.) . . . . .	10
Fall River . . . . .	5	Philadelphia . . . . .	24
Gloversville . . . . .	5	Pittsburg . . . . .	36
Grand Rapids . . . . .	9	Plainfield (N. J.) . . . . .	6
Greenwich . . . . .	8	Portland (Ore.) . . . . .	10
Hartford . . . . .	92	Providence . . . . .	10
Holyoke . . . . .	9	Rochester . . . . .	12
Indianapolis . . . . .	6	Rockville . . . . .	7
Jamestown . . . . .	7	St. Albans . . . . .	5
Kansas City . . . . .	14	St. Louis . . . . .	27

St. Paul . . . .	18	Terre Haute . . . .	5
Salt Lake City . . . .	7	Toledo . . . .	5
Schenectady . . . .	6	Torrington . . . .	10
Scranton . . . .	13	Unionville . . . .	5
Seattle . . . .	15	Utica . . . .	5
Sewickley . . . .	8	Wallingford . . . .	15
Shanghai . . . .	9	Warren (Pa.) . . . .	8
Shelton . . . .	8	Washington . . . .	21
Somerville (Mass.) . . . .	6	Waterbury . . . .	52
South Manchester . . . .	7	West Haven . . . .	17
South Norwalk . . . .	6	Willimantic . . . .	5
South Orange (N. J.) . . . .	10	Wilmington (Del.) . . . .	9
Springfield (Mass.) . . . .	14	Winsted . . . .	6
Stamford . . . .	18	Worcester . . . .	10
Stratford . . . .	13	Yonkers . . . .	11
Syracuse . . . .	9	Youngstown . . . .	5

## SUMMARY OF STUDENTS

## BY DEGREES REPRESENTED

Acadia University . . . .	6	Carleton College . . . .	3
Adrian College . . . .	1	Carthage College . . . .	2
Allegheny College . . . .	1	Catholic Univ. of America . . . .	1
Amherst College . . . .	2	Central College (Mo.) . . . .	2
Anatolia College . . . .	1	Central Turkey College . . . .	2
Andover Theological Seminary . . . .	1	Central University (Iowa) . . . .	2
Baker University . . . .	1	Chicago Theological Seminary . . . .	2
Baltimore Medical College . . . .	1	Christian University . . . .	3
Bangor Theological Seminary . . . .	1	Cincinnati Law School . . . .	1
Bates College . . . .	3	Clark University . . . .	1
Baylor University . . . .	3	Coe College . . . .	2
Belen College . . . .	1	Colgate University . . . .	3
Beloit College . . . .	8	College of the City of New York . . . .	2
Berea College . . . .	1	Columbia University . . . .	7
Berkeley Divinity School . . . .	1	Columbian Methodist Coll. . . .	1
Bethany College (Kans.) . . . .	1	Cornell College . . . .	1
Bethany College (W. Va.) . . . .	6	Cornell University . . . .	4
Boston University . . . .	1	Cotner University . . . .	1
Bowdoin College . . . .	1	Cumberland University . . . .	1
Brown University . . . .	6	Dakota Wesleyan University . . . .	1
Bucknell University . . . .	3	Dartmouth College . . . .	10
Butler College . . . .	2	Davidson College . . . .	1
Calcutta University . . . .	1		

Denison University . . .	2	Macalester College . . .	1
DePauw University . . .	1	McGill University . . .	2
Detroit College of Law . .	1	McLemoresville College .	1
Doane College . . . . .	3	McMaster University . .	1
Doshisha College . . . .	1	McMinnville College . .	1
Drake University . . . .	3	Marburg Gymnasium . . .	1
Drew Theological Seminary .	4	Marion Institute . . . .	1
Elmira College . . . . .	1	Massachusetts Agricultural	
Emporia College . . . . .	1	College . . . . .	1
Euphrates College . . . .	1	Massachusetts Institute of	
Franklin and Marshall College	2	Technology . . . . .	2
Geneva College . . . . .	1	Mercer University . . . .	1
George Washington Univ. .	1	Middlebury College . . .	2
Georgetown University . .	1	Milligan College . . . .	1
Grand Island College . . .	1	Monmouth College . . . .	3
Grant University . . . . .	2	Moravian College . . . .	1
Grove City College . . . .	1	Morris Brown College . .	1
Hamilton College . . . . .	1	Mt. Holyoke College . . .	2
Hamline University . . . .	1	Mt. Saint Mary's College .	1
Hartford Theological Seminary	2	National Normal University	6
Harvard University . . . .	11	New Hampshire College . .	2
Heidelberg University (Ohio)	1	New York Law School . . .	1
Highland College . . . . .	1	New York University . . .	5
Hillsdale College . . . . .	1	Oberlin College . . . . .	5
Hiram College . . . . .	4	Ohio Northern University .	1
Holy Cross College . . . .	2	Ohio State University . .	2
Illinois Wesleyan University	3	Ohio Wesleyan University .	1
Indiana University . . . .	2	Oita Agricultural School . .	1
Iowa State College . . . .	1	Olivet College . . . . .	1
Iowa Wesleyan University .	1	Otterbein University . . .	1
John B. Stetson University .	1	Oxford University . . . .	1
Juniata College . . . . .	1	Pacific Theological Seminary	2
Kansas State Agric. College	1	Pennsylvania College . . .	3
Keiogijiku University . . .	2	Pennsylvania State College	1
Kentucky State College . .	1	Pennsylvania State Forestry	
Knox College . . . . .	1	Academy . . . . .	1
Lafayette College . . . . .	2	Pomona College . . . . .	3
Laval University . . . . .	1	Princeton Theol. Seminary .	2
Lawrence University . . . .	1	Princeton University . . .	4
Lebanon Valley College . . .	2	Queen's University . . . .	1
Lehigh University . . . . .	1	Rhode Island College . . .	4
Leland Stanford Jr. Univ. .	1	Ripon College . . . . .	1
Long Island College Hospital	1	Roanoke College . . . . .	3

Rutgers College . . .	1	University of Nebraska . . .	2
St. Ignatius College . . .	1	University of New Brunswick . . .	2
St. John's College (Shanghai) . . .	2	University of North Carolina . . .	2
St. Lawrence University . . .	1	University of North Dakota . . .	3
St. Mary's College . . .	1	University of Oklahoma . . .	1
St. Paul's Institute . . .	2	University of Oregon . . .	1
St. Stephen's College . . .	1	University of Pennsylvania . . .	4
Santa Clara College . . .	2	University of Toronto . . .	4
Simmons College (Texas) . . .	1	University of South Carolina . . .	1
Simpson College . . .	1	University of Southern	
Smith College . . .	5	California . . .	1
State University of Iowa . . .	1	University of Virginia . . .	1
Stockholm Högre Reallä-		University of Washington . . .	1
roverk . . .	1	University of Wooster . . .	2
Talladega College . . .	2	Upper Iowa University . . .	1
Temple College . . .	1	Ursinus College . . .	1
Tohoku Gakuin . . .	3	Valparaiso University . . .	3
Tokyo College . . .	1	Vanderbilt University . . .	4
Transylvania University . . .	4	Vassar College . . .	6
Trinity College . . .	1	Waseda University . . .	1
Tri-State Normal College . . .	1	Washburn College . . .	1
Tufts College . . .	3	Waynesburg College . . .	1
Twin Valley College . . .	1	Wellesley College . . .	2
Union Theological Seminary . . .	1	Wesleyan University . . .	13
Union University . . .	1	Wesleyan Theological Col-	
University of Arkansas . . .	1	lege (Montreal) . . .	2
University of California . . .	2	West Lafayette College . . .	1
University of Chattanooga . . .	3	West Virginia University . . .	3
University of Chicago . . .	6	Western Kentucky State	
University of Cincinnati . . .	2	Normal School . . .	1
University of Geneva . . .	1	Westminster Theological	
University of Georgia . . .	7	Seminary . . .	1
University of Kansas . . .	9	Williams College . . .	6
University of Leipsic . . .	1	Woman's College (Baltimore) . . .	2
University of Michigan . . .	1	Worcester Polytechnic In-	
University of Minnesota . . .	5	stitute . . .	1
University of Mississippi . . .	1	Yale University . . .	319
University of Missouri . . .	3	Young Harris College . . .	1



## DIRECTORY

The name of every officer is printed in italics and is followed by a reference to the page on which the name occurs in the List of Officers. When more than one page is mentioned the reference is to the page or pages on which the courses given by the instructors are described.

The names of students are followed by the designations of their several classes (Grad., Graduate; Sr., Senior; Mid., Middle; Jr., Junior; 2, Second Year; 1, First Year; So., Sophomore; Fr., Freshman; Spec., Special); the names of students have appended also an indication of the Department to which each belongs, viz.: *a*, Academical Department; *d*, Divinity School; *f*, School of the Fine Arts; *for.*, Forest School; *g*, Graduate School; *l*, Law School; *m*, Medical School; *mus.*, Department of Music; *s*, Sheffield Scientific School.\*

Abbott, C., So. <i>a</i>	8 College st.	<i>Alling, A. N., Prof.</i> (pp. 26, 475)	
Abbott, W. C., Prof.	(pp. 28, 216, 253, 287, 306, 388) (224 L. O. M.)		257 Church st.
	284 Orange st.	Alling, C. B., Sr. <i>a</i>	3 v.
Abel, R., <i>g</i>	74 Lake pl.	Allis, C. H., Sr. <i>a</i>	53 v.
Abramson, H. L., 2 <i>m</i>	1081 Chapel st.	Allison, W. T., <i>g</i> , Grad. <i>d</i> , Grad. <i>s</i>	Middlefield
Abuza, M. C., 1 <i>l</i>	279 Crown st.	Almquist, F. G., Jr. <i>s</i>	171 v-s.
Achilles, H. L., Fr. <i>s</i>	10 B. M. H.	Alofsin, H., 2d, 2 <i>l</i>	163 York st.
Adams, E. B., <i>f</i>	544 Whitney av.	Alpaugh, W. G., Grad. <i>s</i> , Jr. <i>for.</i>	
Adams, G. B., Prof.	(pp. 23, 193-6, 385-7, 518, 521) 57 Edgehill rd.		13 Lake pl.
Adams, J. C., Ass't. Prof.	(p. 29) A.	Alpert, R. H., 1 <i>m</i>	226 Commerce st.
Adams, J. H. J., Fr. <i>s</i>	544 Whitney av.	Alpert, S., 2 <i>l</i>	96 Washington av.
Adams, W. J., Sr. <i>s</i>	184 v-s.	Alvarez, R. M., 3 <i>l</i>	921 Howard av.
Addis, J. S., 2 <i>l</i>	677 w. d.	Alvord, E. L., Jr. <i>s</i>	101 v-s.
Afong, C. W. S., Fr. <i>a</i>	200 York st.	Alvord, H. B., Sr. <i>a</i>	184 F.
Agard, H. L., <i>g</i> , Grad. <i>s</i>	206 F.	Amadon, A. F., Fr. <i>a</i>	219 F.
Aikman, H. D., So. <i>a</i>	260 Crown st.	Ambler, J. A., Jr. <i>s</i>	9 Library st.
Akkelian, S., Jr. <i>d</i>	637 E. D.	Ames, J. Q., Grad. <i>l</i>	152 Temple st.
Alas, A. N. de las, <i>g</i> , Grad. <i>l</i>	609 E. D.	Amory, C. G., Sr. <i>s</i>	111 v-s.
Alden, J., So. <i>a</i>	22 College st.	Amunson, M. M., <i>g</i> , Sr. <i>d</i>	622 E. D.
Algase, C. G., Fr. <i>a</i>	544 F.	Andel, C. E., <i>g</i>	A.
Alger, H. W., Fr. <i>a</i>	122 Wall st.	Anderson, C. M., <i>g</i>	A.
Alker, E. P., Sr. <i>a</i>	67 v.	Anderson, H. S., Instr. (p. 33)	
Alkire, L. H., 1 <i>l</i>	264 York st.	(G.) 350 Humphrey st.	
Allard, J. A., Jr., Sr. <i>s</i>	Stratford	Anderson, J., Fellow	Woodmont
Allen, K. L., Fr. <i>s</i>	150 Grove st.	Anderson, J. F., 3 <i>l</i>	385 Orange st.
Allen, L. S., Jr. <i>s</i>	110 Wall st.	Anderson, R. B., So. <i>a</i>	8 College st.
Allen, M., Jr. <i>s</i>	124 Wall st.	Anderson, W. G., Director (p. 25)	
Allen, P. T., So. <i>a</i>	150 L.	(G.) 1151 Chapel st.	
Allen, R. W., Fr. <i>a</i>	570 F.	Andrew, R. M., Jr. <i>a</i>	35 High st.
Allen, T. H. C., Fr. <i>s</i>	117 Wall st.	Andrews, A. W., 3 <i>l</i>	East Haven
Allen, W. L., Sr. <i>a</i>	A.	Andrews, C. E., Ass't. (pp. 42, 157)	
Allen, W. N., Fr. <i>a</i>	541 F.		200 F.
Allerton, G. M., Jr., Sr. <i>s</i>	163 v-s.	Andrews, P. S., Sr. <i>a</i>	428 FW.
		Andrews, W. E., Spec. <i>d</i>	West Haven

\* The names of students in the Summer School of Forestry are not included in the Directory.

- Andrews, W. T., 1 l Noroton  
 Andrus, H. F., Jr. s 17 Hillhouse av.  
 Angier, R. P., *Ass't. Prof.* (pp. 29, 188-91, 392, 473) (7 HER.) 44 Elm st.  
 Apgar, E. P., Jr. s 170 v-s.  
 Arbuckle, A. M., g 33 Howard av.  
 Arbuckle, W. M., Fr. a 33 Howard av.  
 Arbuthnot, C., 3d, Fr. a 250 York st.  
 Archer, S. M., Fr. s 70 Trumbull st.  
 Armstrong, A. H., Fr. a 598 P.  
 Armstrong, C. D., Jr. a 348 WH.  
 Armstrong, F. L., f Bridgeport  
 Arnold, E. H., *Instr.* (pp. 33, 475) 46 York sq.  
 Arnold, H. S., *Instr.* (pp. 33, 472-3) 199 York st.  
 Arnold, P. T., Sr. a 254 WH.  
 Arvine, E. K., 1 l 313 Humphrey st.  
 Asakawa, K., *Instructor and Curator* (pp. 33, 156, 195, 337, 343, 386, 389) 870 Elm st.  
 Ashbaugh, M. M., 2 l 107 W.  
 Asher, H., Fr. s 59 Grove st.  
 Askin, T. B. H., Fr. s 117 Wall st.  
 Assman, F. A., Sr. a 382 WH.  
 Atkins, H. D., Fr. a 570 P.  
 Atwater, G. F., g, Grad. s 1776 State st.  
 Atwood, F. G., 1 l 158 Whalley av.  
 Atwood, J. A., Jr., Fr. s 125 High st.  
 Aubrey, T. J., So. a 186 F.  
 Audette, L. G., Sr. a 379 WH.  
 Augur, W., Sr. a 69 v.  
 Augustine, F. B., Fr. a 242 York st.  
 Austin, R. M., Jr. a 247 D.  
 Avery, A. M., Sr. a 378 WH.  
 Avery, F. R., So. a 90 C.  
 Avey, A. E., g 211 F.  
 Ayers, C. H. A., f 122 Wall st.  
 Ayers, J. G., Jr., Sr. s 122 Wall st.  
 Aymen, N., Fr. s 635 Congress av.  
 Baars, H. G., Jr., Jr. a 453 FW.  
 Babcock, M. L., Fr. a 584 P.  
 Babcock, W. R., Sr. a A.  
 Bachman, E. W., Sr. a 660 W. D.  
 Bachner, A. J., 2 l 391 B.  
 Bacon, B. S., So. a 260 Crown st.  
 Bacon, B. W., *Prof.* (pp. 25, 149, 331, 335, 439-41) (605 E. D.) 244 Edwards st.  
 Bacon, D. B., f 244 Edwards st.  
 Bacon, F., *Lect.* (p. 33, 475) 32 High st.  
 Bacon, H. R., Jr. s 152 v-s.  
 Bacon, L., Sr. a 342 WH.  
 Bacon, R. T., Fr. s 351 Orange st.  
 Badger, P. B., So. a 22 College st.  
 Badham, R. J., Fr. s 128 Wall st.  
 Baer, S. R., Fr. a 250 York st.  
 Bagg, J. L., Sr. s 167 v-s.  
 Bailey, D. J., 1 l 255 Columbus av.  
 Bailey, E. P., Jr., Fr. s 133 Wall st.  
 Bailey, F., 1 l 7 Park st.  
 Bailey, F. T., Jr. a 111 W.  
 Bailey, J. J., 1 l 152 Temple st.  
 Bailey, P. D., Jr. a 127 W.  
 Bailey, S. J., *mus.* 26 Edgewood av.  
 Bailey, W. B., *Ass't. Prof.* (pp. 29, 200-3, 383, 448) 26 Edgewood av.  
 Baird, C., Fr. a 95 Olive st.  
 Baird, C. W., Jr. s 70 Trumbull st.  
 Baird, J. D., 2 l 165 York st.  
 Baitzell, G. A., g, Grad. s 8 Prospect pl.  
 Baker, A. E., Jr. a 357 WH.  
 Baker, B., Spec. s 147 v-s.  
 Baker, C. M., *mus.* Waterbury  
 Baker, D. M., Fr. s 111 Grove st.  
 Baker, D. S., Fr. a 11 College st.  
 Baker, F. A., Jr. s 70 Trumbull st.  
 Baker, F. H., Fr. s 137 Wall st.  
 Baker, G. M., *Instr.* (pp. 33, 154-5) 913 Yale P. O.  
 Baker, H. C., Jr. a 123 W.  
 Baker, H. H., Jr. a 263 D.  
 Baker, H. W., Fr. a 11 College st.  
 Baker, J. F., Sr. a 8 v.  
 Baker, W. C., Fr. s 421 Temple st.  
 Bakewell, A. A., Fr. s 124 Wall st.  
 Bakewell, C. M., *Prof.* (pp. 27, 187, 190, 391) (G, c.) 305 Lawrence st.  
 Baldwin, C. S., *Ass't. Prof.* (pp. 29, 157-9, 337, 347) (15 WH.) 57 Wall st.  
 Baldwin, H. A., Fr. s 124 Wall st.  
 Baldwin, J. M., Sr. s 124 Wall st.  
 Baldwin, S. E., *Ass't. Prof.* (pp. 22, 204, 384, 451, 501, 503, 509, 511, 520, 523) (69 Church st.) 44 Wall st.  
 Ball, C. S., Spec. d Bridgeport  
 Ball, S. C., Fr. s 344 Elm st.  
 Ballard, G. B., Jr. s 17 Hillhouse av.  
 Ballou, E. H., Fr. a 532 P.

- Balmford, W. V., Fr. s 113 Wall st.  
 Banghart, H. L., Fr. a 92 c.  
 Bangs, J. K., Jr., Sr. a 7 v.  
 Banker, L. A., Sr. s 111 Grove st.  
 Banks, D. T., i m 258 Fairmont av.  
 Banks, J. L., Jr., So. a 27 College st.  
 Bankson, P. C., Fr. a 93 c.  
 Barber, J. E., Jr. a 352 WH.  
 Barber, L. L., Jr. a 258 D.  
 Barbey, J. E., Fr. s 88 Wall st.  
 Barbour, W. R., Fr. s 114 High st.  
 Barclay, L. W., g, Sr. d 198 Hamilton st.  
 Bardon, T., Jr., Fr. a 594 P.  
 Barker, E. A., 3 l Branford  
 Barker, S. G., Jr. s 133 v-s.  
 Barlow, A. W., g 89 Bristol st.  
 Barlow, E. L., Jr. s Bridgeport  
 Barlow, R., Sr. a 24 v.  
 Barnaby, K. T., Sr. s 163 v-s.  
 Barnacle, A. J., i l 51 Bishop st.  
 Barnes, E. S., Jr. a 143 L.  
 Barnes, F., 3 l 423 Temple st.  
 Barnes, F. F., Jr. a 462 FW.  
 Barnes, H. A. Sup't. (p. 50)  
 (rear HER.) 80 Admiral st.  
 Barnes, L. W., f 1102 Chapel st.  
 Barnes, T. S., So. a 259 D.  
 Barney, I., g, Grad. s 346 Whitney av.  
 Barney, S. E., Ass't. Prof. (pp. 29,  
 239, 244, 246, 257, 270, 274, 377)  
 (132 WIN.) 346 Whitney av.  
 Barnum, C. G., 2 m 344 Humphrey st.  
 Barnum, C. L., Ass't. (p. 46)  
 344 Humphrey st.  
 Barnum, T. R., Ass't. (p. 46)  
 (WOOD.) 344 Humphrey st.  
 Barnum, W., Jr. a 376 WH.  
 Barr, A. M., Fr. s 120 High st.  
 Barrell, J., Prof. (pp. 28, 177, 179,  
 365, 367, 425) (1 PEAB.) 85 Avon st.  
 Barreuther, H. J., mus. 19 Whitney av.  
 Barroll, L. W., Jr. a 394 B.  
 Barrows, P. M., Fr. s 120 College st.  
 Barss, W. R., Sr. a 120 York st.  
 Bartholomew, B. W., Jr. s 55 Prospect st.  
 Bartholomew, H. B., Fr. a 39 Lynwood pl.  
 Bartlett, C. J., Prof. (pp. 27, 186,  
 473-5) 209 York st.  
 Bartlett, E. B., Jr. s 133 College st.  
 Bartlett, E. E., Fr. a 531 P.  
 Bartlett, W. H., Sr. s 78 Whalley av.  
 Barton, A., Jr., i l 333 York st.  
 Bassett, A. F., Fr. s 177 v-s.  
 Bassett, W. C., Fr. s 278 Blake st.  
 Bates, C. W., Instr. (pp. 33, 243, 276)  
 299 York st.  
 Bates, H. C., 2 l 139 W.  
 Bates, H. S., Sr. a 35 v.  
 Bates, L. T., Jr. s 17 Hillhouse av.  
 Bates, W. L., Fr. a 226 F.  
 Bateson, E. F., Sr. a 428 FW.  
 Baur, P. V. C., Ass't. Prof. (pp. 29,  
 146-7, 328-9) 943 Yale P. O.  
 Bausher, H., Fr. s 397 Temple st.  
 Baxter, W. G., Grad. s, Jr. for. 13 Lake pl.  
 Bayne, W., 3d, Fr. s 125 High st.  
 Bayne-Jones, S., Jr. a 261 D.  
 Beach, F. E., Ass't. Prof. (pp. 29, 233,  
 259, 276, 354) (118 WIN.) 44 Lyon st.  
 Beach, H. J., Fr. s 90 Wall st.  
 Beach, H. P., Prof. (pp. 25, 446-7)  
 346 Willow st.  
 Beach, J. K., Prof. (pp. 24, 506, 509,  
 511) 450 Temple st.  
 Beach, J. W., So. a 254 Crown st.  
 Beach, R. J., g So. Meriden  
 Beal, H., g A.  
 Bean, H. W., Jr. a 459 FW.  
 Bean, W. H., Instr. (p. 33) 252 York st.  
 Beardslee, C. G., Sr. a 84 c.  
 Beardsley, H. W., Jr. s 104 Wall st.  
 Beardsley, R. O., Jr. s 133 v-s.  
 Beardsley, S. B., So. a 197 F.  
 Beardsley, W. A., So. a 165 L.  
 Beardsley, W. H., Jr. m U. C.  
 Beaty, E. L., Sr. s 111 Grove st.  
 Beaumont, C. E., Jr. s 391 Howard av.  
 Beck, F. G., Ass't. (p. 42) 821 Congress av.  
 Beck, J. A., i l Bridgeport  
 Beckman, F. F. W., Sr. for. 717 W. D.  
 Beckman, H. E., Fr. s 132 Wall st.  
 Beebe, H. C., Jr. s 89 Gregory st.  
 Beebe, I. G., Fr. s 635 George st.  
 Beebe, W., Prof. (pp. 23, 167-8)  
 262 Bradley st.  
 Beecher, J. R., 3 l 105 Park st.

- Beecher, L. T., *mus.* 259 Edgewood av.  
 Beede, V. A., Jr. *a* 350 WH.  
 Beeman, C. C., Sr. *a* 375 WH.  
 Beer, T., So. *a* 22 College st.  
 Beers, D., Fr. *a* 65 York sq.  
*Beers, G. E., Ass't. Prof.* (pp. 29, 502, 505, 509, 522-3) (15 HEN.) 42 Church st.  
*Beers, G. M., Clerk* (p. 46) (3 s. H.) 130 Cottage st.  
*Beers, H. A., Prof.* (pp. 23, 160-3, 345) 65 York sq.  
 Beers, H. A., Jr., Sr. *a* 342 WH.  
*Beers, W. C., Registrar* (p. 46) (HEN.) 279 Willow st.  
 Behrman, M. H., Jr. *a* 218 F.  
 Beilin, A. I., *l* 53 Prospect st.  
 Beinecke, F. W., Sr. *s* 82 Wall st.  
 Belcher, Z., 5th, Fr. *s* 42 Wall st.  
 Belford, V. H., Fr. *s* 387 Temple st.  
 Bell, J. L., Fr. *a* 597 P.  
 Bellamy, D., Jr. *a* 246 D.  
 Bellamy, F. W., Sr. *a* 60 v.  
 Benedict, H. H., Sr. *a* 79 c.  
 Benedict, P. H., Sr. *a* 2 v.  
 Bengis, R., Jr. *s* 142 Chestnut st.  
 Benner, E. W., Jr. *s* 110 v-s.  
 Benner, H., Jr. *a* 270 D.  
 Benner, R. K., *l* 131 w.  
 Bennett, D. H., Fr. *a* 250 York st.  
 Bennett, M. E., *mus.* 357 Elm st.  
 Bennett, R. C., g, 3 *l* 118 York st.  
 Bennett, R. H., Sr. *a* 354 WH.  
*Bennett, T. G., Trustee S. S. S. and Peab.* (pp. 205, 541) 423 Prospect st.  
 Bensinger, A. R., Fr. *a* 221 F.  
 Bentley, C. R., Jr. *a* 349 WH.  
*Berard, S. J., Ass't.* (p. 42) 813 Orange st.  
*Berdan, J. M., Ass't. Prof.* (p. 29, 157-8, 162, 347) (11 WH.) 681 Orange st.  
 Berg, C. F., Fr. *a* 250 York st.  
 Berger, E., *l* Bridgeport  
 Bergin, J. A., 3 *l* 9 Library st.  
 Berkeley, M. F., Spec. *l* 108 High st.  
 Berman, E., So. *a* 789 Yale P. O.  
 Berman, J., Jr. *s* 57 Prospect st.  
 Berman, W. G., Fr. *s* Hartford  
 Bernard, C. P., Sr. *s* 108 High st.  
 Berney, E. E., *l* 672 w. D.  
 Bernhardt, J. F., Sr. *s* 126 Wall st.  
 Beron, R. W., *mus.* 123 York st.  
 Betts, C. A., Fr. *s* 132 Wall st.  
 Bickford, H. W., 3 *l* 264 York st.  
 Biddle, A. A., Sr. *a* 32 v.  
 Biddle, J. C., Fr. *a* 231 York st.  
 Bidwell, A. M., Fr. *s* 130 Wall st.  
 Bidwell, H. F., Spec. *s* 287 York st.  
 Bidwell, P. W., Jr. *a* 258 D.  
*Bierkan, A. T., Instr.* (pp. 33, 503) 42 Church st.  
 Bigelow, C. W., Fr. *a* 566 P.  
 Bigelow, L. C., Jr. *a* 450 FW.  
 Bigelow, P., Jr. *s* 17 Hillhouse av.  
*Bill, E. G., Instr.* (pp. 33, 239, 241, 243-4, 246, 259, 265, 373) 324 Winthrop av.  
 Billard, F. H., Sr. *for.*, Grad. *s* 423 Temple st.  
 Billings, M. L., *f* 382 Whitney av.  
*Bingham, H., Lect.* (pp. 33, 194-5, 389) A.  
 Bingham, H. P., Jr. *a* 269 D.  
*Bingham, S. D., Jr., Ass't.* (pp. 42, 350, 408) 94 Prospect st.  
 Bird, H., Jr. *s* 244 Orchard st.  
 Birdsey, L. C., *mus.* Middletown  
 Birge, J. K., Sr. *a* 17 v.  
 Bisbee, T. W., 2 *l* 384 B.  
*Bishop, A. L., Ass't. Prof.* (pp. 29, 197, 380, 518) 113 Brownell st.  
 Bishop, H. F., 2 *l* 1087 Chapel st.  
 Bishop, O. F., Sr. *s* 174 Grand av.  
 Bishop, W. D., Jr., So. *a* 818 Yale P. O.  
 Bishop, W. F., Jr., Fr. *s* 130 Wall st.  
 Bissell, G. S., Sr. *a* 425 FW.  
 Bissell, M. H., Jr. *s* 190 v-s.  
 Bittenger, C. E., *l* 395 Temple st.  
 Blackburn, J. B., Jr. *a* 348 WH.  
 Blagbrough, H. C., g 711 w. D.  
 Blair, B. W., Fr. *a* 9 Library st.  
 Blair, C. B., Sr. *a* 67 v.  
 Blair, E. S., So. *a* 22 College st.  
 Blair, W. K., Fr. *a* 242 York st.  
 Blake, C. E., So. *a* 182 L.  
*Blake, E. M., Ass't.* (p. 42) 257 Church st.  
 Blanchard, A. F., 2 *l* Meriden  
 Blanchard, M. E., Jr., Fr. *s* 112 v-s.  
 Blegen, C. W., g 192 F.  
 Bleistein, C. W., Fr. *s* 133 College st.  
 Bleistein, G., Jr., Jr. *a* 104 w.

- Bliss, B. G., Jr. *a* 432 FW.  
 Blodget, F. M., Sr. *a* 66 v.  
 Blood, A. F., *g*, Grad. *s* 37 Howe st.  
 Blount, R. F., Fr. *s* 125 High st.  
 Blum, A., Fr. *a* 250 York st.  
*Blumer, G., Prof.* (pp. 27, 474-5)  
 204 York st.  
 Board, S. S., So. *a* 166 L.  
 Boardman, R. S., Sr. *s* 391 Temple st.  
 Boerker, R. H. D., Jr. *s* 128 Wall st.  
 Boesel, A. G., *g*, Grad. *s* 126 College st.  
*Boggs, E. D., Ass't.* (p. 48)  
 (LIB.) 100 York sq.  
*Boggs, T. H., Instr.* (pp. 33, 177, 380,  
 518-9) (3a HER.) 97 Brownell st.  
 Bogue, M., So. *a* 138 w.  
 Boland, A. T., Spec. *d* 696 w. d.  
 Bolton, R. W., Fr. *s* Wallingford  
*Boltwood, B. B., Ass't. Prof.* (pp. 29,  
 172, 354) (S. P. L.)  
 43 Livingston st.  
 Boman, J. S., *g*, Grad. *s* 1092 Yale P. O.  
 Bonander, H. E., *mus.* 98 Chapel st.  
 Bonfils, C. W., Sr. *s* 178 v-s.  
 Bonnie, R. P., Fr. *s* 132 Wall st.  
 Bonoff, Z. A., *g*, Grad. *s* 387 George st.  
 Booth, B. N., Jr. *s* 660 George st.  
 Booth, E. T., Fr. *a* 250 York st.  
 Boothe, L. S., 2 *m* 125 Dwight st.  
 Borden, W. W., Sr. *a* 380 WH.  
*Born, F. J., Med. Ass't. Gymnasium*  
 (p. 33) 106 Whalley av.  
*Bostwick, T. A., Ass't.* (p. 46)  
 (9 PEAB.) 43 Livingston st.  
*Bosworth, R. S., Ass't.* (p. 42)  
 Bosworth, W. T., Fr. *a* 572 P.  
 Botwick, S. W., 2 *l* 24 Arch st.  
 Bourne, G. G., Fr. *s* 120 High st.  
 Bowen, J. K., Jr. *a* 448 FW.  
 Bowen, P. V., Fr. *a* 561 P.  
 Bowen, R. B., Fr. *s* 117 Wall st.  
*Bowers, E. A., Lect.* (pp. 33, 431, 522)  
 209 Crown st.  
 Bowers, T. W., Jr. *a* 119 w.  
 Bowles, G. M., Fr. *s* 400 Temple st.  
 Bowman, A. C., Fr. *s* 188 v-s.  
 Bowman, F. T., Jr., Fr. *a* 242 York st.  
*Bowman, I., Instr.* (pp. 33, 178-80,  
 365, 367, 425, 518) (1 PEAB.)  
 203 York st.
- Bowman, R., So. *a* 251 Crown st.  
 Bowman, S. H., Jr., 2 *l* 36 Elm st.  
 Bowne, H., Fr. *s* 395 Temple st.  
 Bowne, W., Jr., Fr. *s* 395 Temple st.  
 Boyd, F. T., Fr. *a* 217 York st.  
 Boyer, F. Q., *g*, Grad. *s* 216 Orchard st.  
 Boynton, D. S., Fr. *s* 133 College st.  
 Boynton, H. R., Jr., Fr. *a* 260 Crown st.  
 Boynton, N. M., *mus.* Branford  
 Bradford, S. G., Fr. *a* 262 York st.  
 Bradley, A. B., Fr. *s* 130 Wall st.  
 Bradley, H. F., Jr. *s* 117 v-s.  
 Bradley, H. N., Fr. *a* 1076 Chapel st.  
 Bradley, L. J., *f* 21 Hillside av.  
 Bradley, R. F., So. *a* 70 Whalley av.  
 Bradley, S. M., Sr. *s* 184 v-s.  
*Bradley, W. M., Ass't.* (p. 42)  
 520 Whitney av.  
 Bradstreet, G. F., Fr. *s* Bridgeport  
 Brady, E. H., 1 *l* 136 w.  
 Brady, G., Fr. *s* 314 George st.  
 Bragdon, J. H., Fr. *a* 22 College st.  
 Brainard, F. S., Jr. *a* 374 WH.  
 Brainard, N. D., *g*, Grad. *s* 709 w. d.  
 Brainerd, H. S., Jr. *s* 124 Prospect st.  
*Brastow, L. O., Prof.* (p. 21) A.  
 Braude, S. H., So. *a* 156 L.  
 Breazeale, H. P., 2 *l* 702 w. d.  
 Bree, W. A., Grad. *l* 712 State st.  
 Breen, F. J., 1 *l* Bridgeport  
 Brenner, I. M., Jr. *m* 44 Bishop st.  
 Brenner, J. R., Jr. *s* 113 Bradley st.  
 Brenza, J. B., 3 *l* 152 Temple st.  
 Brenza, S. A., Jr. *m* 152 Temple st.  
 Bretz, H. B., Jr. *a* 383 B.  
 Breul, A. C., *g* A.  
 Brevoort, W. H., Jr., Jr. *s* 111 Grove st.  
*Brewer, D. J., Lect.* (p. 33)  
 Washington, D. C.  
 Brewer, F. C., So. *a* 256 D.  
*Brewer, W. H., Prof.* (pp. 21, 425)  
 418 Orange st.  
 Brewster, J., *mus.* Warehouse Point  
 Brewster, W. E., Jr. *s* 103 v-s.  
 Brides, A. E., Jr. *m* 895 Howard av.  
 Bridgett, F. E., Jr. *s* Wallingford  
 Briggs, L. B., *g*, Grad. *d* 396 Elm st.  
 Brigham, J. N., Jr. *a* 353 WH.

- Bright, G. A., Jr. *for.*, Grad. *s* 695 W. D.  
 Brinkmann, C., *Lect.* (p. 33) 196 York st.  
 Brinsmade, P. S., Fr. *a* 242 York st.  
 Briscoe, J. M., Sr. *for.* 423 Temple st.  
 Briscoe, T., Fr. *a* 563 P.  
 Bristol, D. J., Jr., Sr. *s* 519 George st.  
 Bristol, R. W., Fr. *s* 7 B. M. H.  
 Britton, J. A., Jr. *s* 148 Grove st.  
 Broadbent, E. B., So. *a* 911 Dixwell av.  
 Broadhead, W. A., Jr. *s* 119 Wall st.  
 Brockway, U. H., Jr., So. *a* 251 Crown st.  
 Brody, J. E., Jr. *s* 21 William st.  
 Bronson, B., Sr. *a* 429 FW.  
 Bronson, T. L., Fr. *a* 242 York st.  
 Bronson, W. B., So. *a* 11 College st.  
 Brooke, W. E., Fr. *s* 721 W. D.  
 Brooks, A. F., Fr. *s* Meriden  
 Brooks, H., Sr. *a* 56 v.  
 Brooks, H. W., Sr. *a* 62 v.  
 Brooks, L. M., Fr. *s* 110 Wall st.  
 Brooks, R. L., Fr. *s* 113 Wall st.  
 Brooks, S. H., Fr. *s* 150 Grove st.  
 Brooks, W. S., *g* Wallingford  
 Brown, A. H., Fr. *s* 333 York st.  
 Brown, C., Fr. *a* 1136 Chapel st.  
 Brown, C. C., *Priv. Sec'y.* (p. 46)  
 (WOOD.) 22 Lynwood pl.  
 Brown, C. T., Sr. *a* 47 v.  
 Brown, E. W., *Prof.* (pp. 26, 168-9, 372, 374) 116 Everitt st.  
 Brown, F. W., Jr. *d* 724 W. D.  
 Brown, G. F., *s* 133 College st.  
 Brown, G. P., So. *a* 179 L.  
 Brown, H. G., *Ass't.* (pp. 42, 200) 691 W. D.  
 Brown, J. D., Jr., Fr. *a* Milford  
 Brown, L. B., *f* Bridgeport  
 Brown, L. P., Fr. *a* 533 P.  
 Brown, O. C., So. *a* 416 B.  
 Brown, R., *Sec'y.* (p. 21) Observatory pl.  
 Brown, R. M., Jr. *s* 188 v-s.  
 Brown, S. E., So. *a* 180 L.  
 Brown, S. F., Jr. *s* 103 v-s.  
 Brown, T. H., Jr. *a* 361 WH.  
 Brown, W. L., So. *a* 120 W.  
 Brownell, C. R., Jr. *s* 113 v-s.  
 Browning, P. E., *Ass't. Prof.* (pp. 29, 174-5, 358-9) (K. C. L.) 23 Edgehill rd.  
 Bruce, D., Jr. *for.*, Grad. *s* 200 F.  
 Brush, G. J., *Prof., Pres. Trustees S. S. S., Trustee Peab.* (pp. 21, 205, 541) 14 Trumbull st.  
 Brush, H. D., Fr. *a* 254 York st.  
 Bry, M. E., *1 m* 615 E. D.  
 Bryant, R. C., *Instr.* (pp. 34, 429) 217 St. Ronan st.  
 Bryce, J., *Lect.* (p. 34) Washington, D. C.  
 Buchanan, D. I., Fr. *s* 59 Grove st.  
 Buckingham, C. L., Jr., Fr. *s* 427 Temple st.  
 Buckley, R. E., *2 m* 1081 Chapel st.  
 Budd, A. W., Sr. *d* 644 E. D.  
 Buist, G. L., Jr. *a* 265 D.  
 Buland, M. E., *g*, Grad. *s* 61 Trumbull st.  
 Bull, D. M., Fr. *s* 104 Wall st.  
 Bullard, H. S., *1 l* 199 York st.  
 Bullitt, W. C., Jr., Fr. *a* 242 York st.  
 Bumstead, H. A., *Prof.* (pp. 27, 172, 354) (S. P. L.) 45 Edgehill rd.  
 Bundy, H. H., Sr. *a* 37 v.  
 Bunting, J. S., Sr. *a* 78 C.  
 Burch, R. B., Sr. *a* 30 v.  
 Burger, D. E., Fr. *a* 550 P.  
 Burgess, A. W., *1 l* 871 Grand av.  
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 Burnett, E. N. T., Sr. *a* 21 v.  
 Burnett, I. S., Sr. *s* 126 Wall st.  
 Burnham, G., Sr. *s* 96 Wall st.  
 Burnham, J. M., *g* 1304 Chapel st.  
 Burnham, R. B., Sr. *a* 25 v.  
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- Burrell, J. K., Fr. *a* 587 P.  
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 Burrows, W. F., Jr., Fr. *s* 88 Wall st.  
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 Bush, L. P., *g* 133 Howe st.  
 Bushnell, E., So. *a* 167 L.  
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 (25 LAM.) 161 York st.  
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 Butler, L. W., Sr. *s* North Haven  
 Butterfield, B. V., So. *a* 167 L.  
 Buttner, J. L., Sr. *m* 78 Dwight st.  
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 Byrnes, R. M., *g* 769 Yale P. O.  
  
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 253, 257, 287, 381) (225 L. O. M.)  
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 392-3) (10 HER.)  
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 Devereux, J. F., Sr. *a* 460 FW.  
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 Downs, R. I., *1 m* Ansonia  
 Dox, A. W., *g, Grad. s* 708 W. D.  
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 Dyer, E. G., Jr. *s* 57 Elm st.  
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 (pp. 35, 204, 501, 503, 505, 508, 522)  
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 Fenton, K. L., Fr. *a* 422 B.  
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 Ferris, G. B., Jr. *a* 377 WH.  
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 Gardner, R. A., Fr. *a* 242 York st.  
 Garland, J. P., So. *a* 22 College st.  
 Garland, L. S., Fr. *a* 242 York st.  
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 Garlick, G. B., *i m* 189 F.  
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 Gates, L. H., *3 l* 226 F.  
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 Gillern, R. A., Fr. *s* 34 Trumbull st.  
 Gillespie, G. E., Sr. *s* 70 Trumbull st.  
 Gillespie, J. P., So. *a* 8 College st.  
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 Gilmore, E. I., *g*, Mid. *d* 694 W. D.  
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 Hunting, H. B., g, Grad. *d* 41 Pleasant st.
- Huntington, E., Instr. (pp. 36, 177-8,*  
 180, 365, 367) 399 B.  
*Huntoon, L. D., Prof. (pp. 28, 237,*  
 246, 278) (H. M. L.) 284 Orange st.  
 Hurd, G. A., Jr. *a* 56 Grove st.  
 Hurlbutt, C. S., Jr. *s* 37 College st.  
 Hurlbutt, F. R., 1 *l* 333 York st.

- Hurley, J. A., Jr., Sr. *a* 343 WH.  
 Hurtt, F. D., Grad. *l* 661 W. D.  
 Hurwitz, H. M., *i m* 77 Washington av.  
 Husted, H. T. F., *g* 211 F.  
 Hutchins, A. E., *Catalogue Reviser* (p. 49) LIB.  
 Hutchins, H. L., Sr. *s* 234 Division st.  
 Hutchinson, J. R., *Ass't. Clerk* (p. 47) (3 s. h.) Branford  
 Hutchinson, L. O., Jr. *a* 188 F.  
 Hutkoff, A. A., *i l* 413 Temple st.  
 Hyde, A. C., *i l* 429 Union av., West Haven  
 Hyde, C. E., Jr. *m* 81 Newhall st.  
 Hyde, D. R., Fr. *a* 231 York st.  
 Hyde, F. W., Jr., So. *a* 22 College st.  
 Hyde, G. G., Jr. *a* 255 D.  
 Hyde, G. M., Jr. *a* 415 B.  
 Hyde, H. N., *g* A.  
 Hyde, J. R., Jr. *s* 148 Grove st.  
 Hyde, S. G., *Catalogue Reviser* (p. 49) (LIB.) 65 Grove st.  
 Hyde, V. E., *f* 79 Howe st.  
 Hynes, T. V., *Instr.* (pp. 36, 474) 27 College st.  
  
 Ide, G. E., *Lect.* (p. 36) New York City  
 Ijams, F. B., Jr. *s* 17 Hillhouse av.  
 Immich, H. D., Jr. *d* 709 W. D.  
 Ingall, O. D., Sr. *for.* 74 Whalley av.  
 Ingalls, J. A., Jr. *s* 1371 Chapel st.  
 Ingersoll, G. F., Fr. *a* 260 Crown st.  
 Ingersoll, H., Jr. *s* 133 Wall st.  
 Ingersoll, J. A., Fr. *s* 120 High st.  
 Ingersoll, J. W. D., *Ass't. Prof.* (pp. 30, 143-4, 326, 328) (D. c.) 139 York st.  
 Inghram, M. G., Mid. *d* 626 E. D.  
 Inglis, E. A., *i l* 283 Crown st.  
 Ingraham, E., Jr. *a* 462 FW.  
 Irons, H. S., So. *a* 181 L.  
 Irving, J. D., *Prof.* (pp. 28, 237, 246, 250, 278, 284, 367-8) (191 K.) 76 Wall st.  
 Irwin, D. D., *g*, Grad. *s* 133 College st.  
 Irwin, V. J., Jr., Sr. *m* 1 Sylvan av.  
 Ish, J. G., Jr., Sr. *a*, *i m* 658 W. D.  
 Izumi, A., *g* 83 Mansfield st.  
 Jack, J. L., Fr. *a* 254 Crown st.  
 Jack, W. J., *g* A.  
 Jacks, F. N., Grad. *l* 396 Elm st.  
 Jackson, A. J., Fr. *s* 413 Temple st.  
 Jackson, S. G., *3 l* 126 Wall st.  
 Jacob, W. H., So. *a* 8 College st.  
 Jacobus, D. L., *g* 26 Court st.  
 James, C. V., *2 l* 141 Greene st.  
 James, G. R., Jr. *m* 141 Greene st.  
 James, J. E., *3 l* 361 Elm st.  
 Jamieson, G. S., *Instr.* (pp. 36, 235, 237, 244, 246, 250, 266) (151 S. C. L.) 141 Canner st.  
 Jamison, H. B., *g* A.  
 Jamison, W., So. *a* 151 L.  
 Jannini, M., *i l* 792 Grand av.  
 Jansen, J. J., Jr., Jr. *a* 370 WH.  
 Jebejian, N. H., *g*, Grad. *s* 945 Yale P. O.  
 Jefferson, C. E., *Fellow* 121 W. 85th st., New York City  
 Jefferson, C. F., Jr. *a* 76 c.  
 Jefferson, E. F., Sr. *a* 381 WH.  
 Jefferson, R. W., Fr. *a* 558 P.  
 Jefferson, S. P., *g* 381 WH.  
 Jeffery, R., Jr., Fr. *a* 8 College st.  
 Jelliffe, S. R., Fr. *s* 419 Temple st.  
 Jenner, J. M., Fr. *a* 573 P.  
 Jennings, F. B., Jr. *a*, *i m* 470 FW.  
 Jensen, G. E., *g*, Grad. *s* 1076 Chapel st.  
 Jente, R., Jr. *a* 86 Henry st.  
 Jepson, H. B., *Prof. and University Organist* (pp. 28, 166, 351, 408) (MEM.) 245 East Rock rd.  
 Jerome, G. N., Jr. *s* 24 Gilbert av.  
 Jerome, W. T., Jr., Fr. *a* 231 York st.  
 Jewell, O. S., Jr. *a* 55 v.  
 Jewell, R. H., So. *a* 250 Crown st.  
 Jewett, M., Fr. *a* 238 York st.  
 Jewett, C. C., Jr. *a* 262 D.  
 Jewett, N. H., Sr. *a* 34 v.  
 Jimenis, O., Jr. *s* 124 Prospect st.  
 Johns, C. O., *Instr.* (pp. 36, 233, 266) (151 S. C. L.) 320 Winthrop av.  
 Johnson, A. B., So. *a* 175 L.  
 Johnson, A. E., *i m* Ansonia  
 Johnson, A. M., Sr. *a* 115 W.  
 Johnson, A. S., *f* 374 Grand av.  
 Johnson, B. L., Sr. *s* 96 Wall st.  
 Johnson, C. T., Fr. *a* 551 P.  
 Johnson, D., Fr. *s* 113 Wall st.

- Johnson, E. A., Sr. *a* 332 WH.  
 Johnson, E. C., Sup't. Univ. Dining Hall (p. 47) 1361 Chapel st.  
 Johnson, F. E., Jr. *m* 45 Third st.  
 Johnson, G. A., Ass't. (p. 49) (LIB.) 1916 State st.  
 Johnson, G. M., *g* 366 Whalley av.  
 Johnson, H. L., Sr. *for.* 129 Mansfield st.  
 Johnson, J. F., Jr., Jr. *a* 85 C.  
 Johnson, R. C., Sr. *a* 371 WH.  
 Johnson, S. W., Prof. (p. 21) 54 Trumbull st.  
 Johnson, T. B., Instr. (pp. 36, 235, 237, 250, 266, 357) (151 S. C. L.) 120 Dwight st.  
 Johnston, D. A., Fr. *s* 120 College st.  
 Johnston, T. S., Jr., Jr. *a* 468 FW.  
 Jones, A. M., Jr. *s* 367 Howard av.  
 Jones, B. A., *g* Bridgeport  
 Jones, B. F., *g* 953 Yale P. O.  
 Jones, Charles C., Sr. *a* 55 V.  
 Jones, Cheney C., 3 *l* 1233 Chapel st.  
 Jones, C. L., Fr. *s* 395 Temple st.  
 Jones, E. P., Jr. *a* 378 WH.  
 Jones, F. E., Jr. *a* 16 V.  
 Jones, F. R., Jr. *s* 112 V-S.  
 Jones, F. S., Dean Elect (p. 26) A.  
 Jones, F. W., Jr., Jr. *a* 349 WH.  
 Jones, G. C., Jr. *s* 127 V-S.  
 Jones, H. P., 3 *l* 128 High st.  
 Jones, J. L., *g*, Grad. *s* 314 George st.  
 Jones, M. F., Fr. *s* 3 Hillhouse av.  
 Jones, P. W., Jr. *s* 147 Dwight st.  
 Jones, R. C., Sr. *for.* 60 Whalley av.  
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 Jordan, R. G., Spec. *l* 36 Mansfield st.  
 Joyce, H. E., Fr. *a* 582 P.  
 Joyce, J. S., Sr. *s* 186 V-S.  
 Judd, C. H., Prof. (pp. 28, 188-91, 392) (6 HER.) 318 Willow st.  
 Judson, A. C., *g*, Grad. *s* 631 E. D.  
 Judson, M., *g* 37 Howe st.  
 Jui, P., Sr. *s* 56 Grove st.  
 Julianell, L., *f* 247 Oak st.  
 Julin, C. E., 1 *l* 7 University pl.  
 Kaercher, G. H., Sr. *s* 149 V-S.  
 Kalaidjian, M. T., *g* 619 Yale P. O.  
 Kanda, M., *g* 143 York st.  
 Kaufman, J. P., Sr. *a* 419 B.  
 Kaufmann, C. E., Sr. *s* 70 Trumbull st.  
 Kavanagh, E. C., Clerk (p. 47) 14 Compton st.  
 Kavanagh, E. S., Fr. *a* 158 L.  
 Kawanaka, K., *g*, Grad. *d* 612 E. D.  
 Kaynor, W. F., Fr. *s* 117 Wall st.  
 Kaynor, W. K., Fr. *a* 231 York st.  
 Kazanjian, C. K., 1 *l* 294 Orchard st.  
 Keator, S. J., Jr., Sr. *a* 451 FW.  
 Keefe, A. T., Jr. *a* 109 W.  
 Keefe, W. H., Jr., Fr. *s* 159 Elm st.  
 Keeler, P. I., Sr. *s* 171 V-S.  
 Keeler, R., Fr. *a* 549 P.  
 Keeler, S. E., Jr., Jr. *a* 469 FW.  
 Keenan, J. L., So. *a* 81 C.  
 Keenan, W. P., Fr. *a* 225 F.  
 Keeney, G. B., Fr. *s* 140 V-S.  
 Keirstead, W. O., *g* Montowese  
 Keith, E. D., Jr. *a* 393 B.  
 Keller, A. G., Prof. (pp. 28, 197-8, 253, 287, 380) (1 HER.) 55 Huntington st.  
 Kelley, H., Sr. *a* 331 WH.  
 Kellogg, C. D. H., Jr., Jr. *s* Bridgeport  
 Kellogg, F. B., Sr. *s* 171 V-S.  
 Kelly, J. F., *f* Whitneyville  
 Kelly, M. P., 3 *l* 111 Greenwood st.  
 Kelsey, C., Sr. *a* 236 D.  
 Kelsey, S. T., Sr. *a* 45 V.  
 Kemper, M., So. *a* 163 York st.  
 Kenealy, E. J., 1 *l* Stamford  
 Kenealy, M. H., 2 *l* 707 W. D.  
 Keniston, J. M., Ass't. (p. 43) Middletown  
 Kennedy, C. C., *g* A.  
 Kennedy, E. A., *mus.* 45 Houston st.  
 Kennedy, L., Sr. *a* 441 FW.  
 Kennedy, R. M., *mus.* Wallingford  
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 Kennedy, W. J., 2 *l* 51 Clark st.  
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 Kenyon, J. I., Grad. *l* 17 Lake pl.  
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 Kerr, C. M., Fr. *s* 148 Grove st.  
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 (LIB.) 191 Edgewood av.  
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 Kilborn, M. C., *g* 55 Dwight st.  
 Kilbourn, A. J., So. *a* 249 Crown st.  
 Kilbourn, J. F., So. *a* 249 Crown st.  
 Kilpatrick, J. R., So. *a* 22 College st.  
 Kilpatrick, W. F. D., *1 l* Bridgeport  
 Kimball, J. S., Fr. *a* 250 York st.  
 Kimball, W. G., Jr. *s* 151 v-s.  
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 Kimzey, J. A., Jr. *m* 287 York st.  
 Kincaid, P. D., Fr. *s* 117 Wall st.  
 Kincaid, W. A., Jr., Sr. *a* 15 v.  
 King, A. G., Jr. *a* 120 w.  
 King, F. S., *mus.* 57 Grove st.  
 King, G. R., Sr. *s* 207 Bishop st.  
 King, G. W., Sr. *m* 911 Howard av.  
 King, H. M. F., Fr. *a* 547 P.  
 King, L. M., Jr. *a* 433 FW.  
 King, M., *Ass't.* (p. 43) G.  
 King, R. B., Jr. *a* 355 WH.  
 King, R. P., *3 l* 128 High st.  
 King, R. R., So. *a* 22 College st.  
 King, R. S., Sr. *s*, Spec. *l* 131 Grove st.  
 Kingsley, H. M., Jr. *d* 106 Goffe st.  
 Kinne, F. B., *Ass't.* (p. 43) 209 York st.  
 Kinney, W. F., Fr. *s* 925 Howard av.  
 Kinsley, F., Jr. *mus.* 176 Beacon av.  
 Kirby, H. W., Fr. *a* 11 College st.  
 Kirby, R. S., *Instr.* (pp. 36, 239, 244, 270, 274) 313 Crown st.  
 Kircher, J. C., Sr. *for.* 1076 Chapel st.  
 Kircher, T. E., *2 l* 1076 Chapel st.  
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 Kirjassoff, L. S., Jr. *s* 409 B.  
 Kirjassoff, M. D., Jr. *a* 409 B.  
 Kirk, A. C., Sr. *a* 105 w.  
 Kirkham, W. B., *Instr.* (pp. 36, 233, 248, 251, 279) (78 S. B. L.) 659 w. D.  
 Kirkman, E. K. A., *f* 183 Lawrence st.  
 Kirkman, L. A., *mus.* 183 Lawrence st.  
 Kirschbaum, E. H., *1 m* 585 Howard av.  
 Kirschman, N. H., Fr. *s* 53 Prospect st.  
 Kistler, E. O., Fr. *s* 411 Temple st.  
 Kitchel, A. F., Sr. *a* 334 WH.  
 Kitchel, C. L., *Sec'y. Bur. Appointments* (p. 30) (4 PH.) 253 Lawrence st.  
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 Kittredge, G. D., Sr. *a* 438 FW.  
 Kittredge, R. D., *2 l* 192 F.  
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 Klein, H. L., Fr. *a* 936 Grand av.  
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 Kleiner, S. B., Fr. *s* 39 Howe st.  
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 Knight, F. M., Fr. *a* 578 P.  
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 Knox, G. G., Fr. *s* 120 High st.  
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 Koons, F. S., So. *a* 107 w.  
 Koontz, A. B., *2 l* 239 D.  
 Kopelman, J. I., *1 l* 53 Prospect st.  
 Kopsco, M. J., *f* 53 Lake pl.  
 Koshkarian, B. L., Jr. *s* 7 Library st.  
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 Krah, C. A., Jr. *s* 315 York st.  
 Kramer, G. B., *g* 342 George st.  
 Kramer, S., Fr. *a* 217 York st.  
 Krasnye, J. F., *2 m* 340 Orange st.  
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 Kreider, D. R., Fr. *a* 521 P.  
 Kuan, J. L., *1 l* 333 York st.



- Kugel, H. J., Jr. *a* 108 Oak st.  
*Kunkel, B. W., Instr.* (pp. 36, 183-4, 233, 248, 251, 253, 279) 868 Orange st.  
 Kurtz, D. W., *g*, Grad. *d* Leipsic, Germany  
 Kylberg, V. C., Fr. *s* 315 Crown st.  
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 Lacava, J. B., 2 *l* Hartford  
*Ladd, G. T., Prof.* (p. 22) 204 Prospect st.  
 Lagerquist, W. F., *g* 631 W. D.  
 Lake, F. C., Jr., Jr. *a* 457 FW.  
 Lamb, F. E., So. *a* 153 L.  
 Lambert, E. A., Jr. *s* 124 Prospect st.  
 Lambert, G. C., Grad. *d* 639 E. D.  
 Lambert, H., *mus.* 64 Whalley av.  
 Lambie, W. S., Fr. *a* 200 York st.  
 Lamond, J. K., *g*, Grad. *s* 103 Park st.  
 LaMontagne, R. W., Sr. *s* 17 Hillhouse av.  
 LaMontagne, W. A., Fr. *s* 389 Temple st.  
 Lancashire, A. W., Fr. *s* 130 Wall st.  
*Lancaster, B. M., Cataloguer* (p. 49) (LIB.) 333 Dixwell av.  
 Lancaster, J. H., 2 *l* 124 Wall st.  
 Land, B. D., 1 *l* 9 Arch st.  
 Landon, H. M., So. *a* 8 College st.  
 Landon, J. S., Jr. *a* 241 D.  
 Lane, F. H., *mus.* Hartford  
 Lane, J., Jr. *a* 131 W.  
*Lane, J. E., Ass't.* (p. 43) 203 York st.  
*Lang, H. R., Prof.* (pp. 24, 152-3, 328, 338, 340-1) (176 L.) 60 Trumbull st.  
 Langdon, P., Jr., Fr. *s* 148 Grove st.  
 Langford, W. B., Jr. *s* 152 v-s.  
 Langstroth, E., So. *a* 36 v.  
*Langzettell, G. H., Instr. and Sec'y.* (p. 36) (A. S.) 725 Whitney av.  
 Lansing, C. B., Fr. *s* 119 Wall st.  
 Lanyon, R., Fr. *s* 119 Wall st.  
 Larimore, R. M., Fr. *s* 124 Prospect st.  
 Larkey, B., 1 *l* 159 L.  
 Larkin, C. L., Fr. *a* 266 York st.  
 Larkin, W. J., 3 *l* 36 Elm st.  
 Larremore, T. A., So. *a* 260 Crown st.  
*Larsen, J. A., Ass't.* (p. 43) (1 PEAB.) 418 B.  
 Larus, J. R., Jr., Fr. *a* 242 York st.  
 Lathrop, F. W., So. *a* 250 Crown st.  
 Lathrop, R. S., *mus.* 130 Howe st.  
 Lathrop, T. B., Grad. *d* Bethlehem  
 Lathrop, W. G., *g* Shelton  
 Latourette, K. S., *g* 195 F.  
 Laub, S. B., 2 *l* 107 York st.  
 Laubscher, F. A., So. *a* 150 L.  
 Laughlin, A., Jr., Jr. *s* 145 v-s.  
 Lautman, M. F., 2 *m* 112 Asylum st.  
 Lautz, J., Jr. *s* 126 Wall st.  
 Lautz, O. C., Jr. *s* 169 v-s.  
 Lavery, H. J., 1 *l* Bridgeport  
 Lawrence, D. W., Fr. *a* 570 P.  
 Lawrence, H. W., Jr., *a* 125 Dwight st.  
 Lawrence, J. B., Jr. *s* 124 Wall st.  
*Lawrie, L. O., Instr.* (pp. 36, 165, 349) (A. S.) 78 Water st.  
 Lawson, W. S., Jr., Sr. *s* 133 College st.  
 Lawton, D. L., Sr. *a* 59 v.  
*Lay, W. S., Ass't.* (p. 43) Centerville  
 Leach, R. E., *mus.* 278 Orange st.  
 Lear, L. B., Fr. *s* 119 Oak st.  
 Lear, M., 2 *m* 61 Arch st.  
 Learned, E. T., Fr. *a* 556 P.  
 Learned, H. B., *g* 50 Cold Spring st.  
 Leary, J. T., Fr. *s* 109 York st.  
 Leavens, D. H., Sr. *a* 43 v.  
 Leavenworth, D. T., Jr. *a* 248 D.  
 Leavitt, D. A., Grad. *d* Berlin, Germany  
 LeBlanc, K., So. *a* 8 College st.  
*LeCompte, I. C., Instr.* (pp. 36, 150-1, 339) 881 Orange st.  
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 Lee, F. P., 1 *m* 1081 Chapel st.  
 Lee, J. A., Jr. *s* 82 Wall st.  
 Leeper, J. L., Jr., Sr. *s* 110 Wall st.  
 Legate, R. H., *g*, Jr. *d* 299 Norton st.  
 Legg, H. G., Fr. *s* 123 v-s.  
 Lehman, L. H., Jr. *a* 174 L.  
 Lehr, F. L., Jr., Fr. *s* 328 Winthrop av.  
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 Lennox, A., 2 *l* 363 WH.  
 Lent, J. M., Spec. *d*  
 Leopold, A., Sr. *for.* 379 Temple st.  
 Leopold, B., Fr. *s* 18 Howe st.  
 Leopold, C. S., Fr. *s* 119 Wall st.  
 Lester, R., Spec. *l* 333 York st.  
 Levy, L. H., 2 *m* 64 Congress av.



- Levy, P., 1 *m* 17 Vernon st.  
 Levy, R. L., Sr. *a* 427 FW.  
 Levy, S. L., So. *a* 141 W.  
 Levy, W., 2 *m* 91 Greene st.  
 Lewis, B. E., *g* 1193 Chapel st.  
 Lewis, C. G., Jr. *s* 205 Whitney av.  
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 425 St. Ronan st.  
 Lewis, D. M., Instr. (pp. 37, 474)  
 438 George st.  
 Lewis, E. M., Instr. (pp. 37, 449-50)  
 (606 E. D.) Williamstown, Mass.  
 Lewis, F. B., Sr. *s* Stratford  
 Lewis, F. C., Jr. *a* 389 B.  
 Lewis, F. G., So. *a* 151 L.  
 Lewis, H. L., Sr. *s* 141 v-s.  
 Lewis, H. M., So. *a* 254 Crown st.  
 Lewis, J. M., So. *a* 169 L.  
 Lewis, J. W., Jr. *s* 133 College st.  
 Lewis, K. L., *mus.* 121 Park st.  
 Lewis, M. C., Jr. *s* 391 Winthrop av.  
 Lewis, N. S., *mus.* West Haven  
 Lewis, R. C., Sr. *s* Stratford  
 Lewis, R. W., So. *a* 22 College st.  
 Lewis, T. H., Fr. *a* 540 P.  
 Liberman, B. L., Jr. *a* 403 B.  
 Liddle, L. M., *g*, Grad. *s* 162 s. c. L.  
 Liebman, E. H., Jr. *s* 208 Willow st.  
 Lightner, F. D., Sr. *a* 10 v.  
 Lightner, M. C., Sr. *a* 11 v.  
 Lilley, J. L., Sr. *s* 161 v-s.  
 Lilley, T., Jr. *s* 133 College st.  
 Lilley, W. A., Jr., Instr. (pp. 37, 241, 243, 272) 781 Orange st.  
 Limberg, E. A., Fr. *s* 110 Wall st.  
 Lincoln, Mrs. C. T., Priv. Sec'y. (p. 47) 126 McKinley av.  
 Lincoln, R. H., 2 *l* 1081 Chapel st.  
 Lindeman, H. H., Mid. *d* 628 E. D.  
 Lines, H. S., Fr. *a* 233 York st.  
 Lines, W. S., Jr., Fr. *a* 242 York st.  
 Linn, R. A., 1 *l* 68 Lake pl.  
 Linsly, E. H., *f* 447 George st.  
 Lippitt, H., Sr. *a* 32 v.  
 Little, H. C., Jr. *m* 75 c.  
 Little, J. P., So. *a* 149 L.  
 Livingston, E. P., So. *a* 8 College st.  
 Livingston, H. H., Sr. *a* 427 FW.  
 Lockard, H. K., Engineer (p. 50) 92 Clark st.  
 Lockhart, C. E., Sr. *s* 402 Crown st.  
 Lockhart, J. A., 1 *l* 402 Crown st.  
 Lockwood, A. C., Fr. *s* 126 Wall st.  
 Lockwood, E. H., Ass't. Prof. (pp. 30, 241, 246, 272, 376) (110 WIN.) 52 Division st.  
 Logan, G. C., Fr. *s* 114 High st.  
 Logan, H. H., Jr. *s* 109 v-s.  
 Logan, W. S., Jr., Jr. *a* 242 D.  
 Logie, T. T., Sr. *s* B. M. H.  
 Lohman, C. A., Jr. *a* 104 W.  
 Lohmann, A. W., Jr., 3 *l* 1044 Chapel st.  
 Lomax, N. J., Jr. *s* 114 High st.  
 Lombardi, C. E., So. *a* 22 College st.  
 Long, B. H., So. *a* 183 L.  
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*Rogers, H. N., i l* 82 Whalley av.  
*Rogers, H. W., Prof. and Dean*  
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*Rogers, J. C., Grad. l* 53 Prospect st.  
*Rogers, J. F., Ass't.* (p. 44)  
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*Rogers, J. H., Sr. a* 373 Crown st.  
*Rogers, P., Jr. s* 110 Wall st.  
*Rogers, P. H., i m* 9 Library st.  
*Rogers, R. P., 3 l* 36 Elm st.  
*Rogers, W. S., Jr. a* 373 WH.  
*Rohrbach, C. H., Jr., Fr. a*  
 Bridgeport  
*Rolfe, C. E., mus.* Ansonia  
*Rolofson, J. J., Jr., Grad. l*  
 364 York st.  
*Romadka, J. M., Jr. a* 249 D.  
*Romme, J. H., 3 l*  
 334 Center st., West Haven  
*Roome, R., Jr. a* 238 D.  
*Root, E. K., Lect.* (pp. 39, 475)  
 Hartford  
*Root, F. J., Sr. s* 65 Foote st.  
*Rose, R. S., Sr. a* 32 v.  
*Rose, W. C., Ass't.* (p. 44)  
 1305 Chapel st.
- Rosenbaum, H., g, Grad. s*  
 68 Park st.  
*Rosenbaum, J., g, Grad. s* 68 Park st.  
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*Ross, R., So. a* 82 c.  
*Ross, Z. C., So. a* 22 College st.  
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*Roth, R. J., Sr. s* 133 College st.  
*Rothensies, L. D., Jr. s* 685 W. D.  
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*Rothschild, L. L., So. a* 236 Crown st.  
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*Rowe, S. M., Fr. a* 250 York st.  
*Rowland, E. T., Fr. s* 41 Maple st.  
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*Rowland, J. T., So. a* 163 L.  
*Rowland, M. T., Fr. a* 231 York st.  
*Rowland, W. E., Cashier* (p. 47)  
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*Rudd, W. B., Jr. s* 96 Wall st.  
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*Ruffcorn, G. W., i l* 366 Whalley av.  
*Ruffcorn, W. M., 3 l* 366 Whalley av.  
*Ruge, E. G. W., Fr. a* 248 York st.  
*Rumsey, J. F., Jr., So. a* 8 College st.  
*Runciman, L. S., Fr. s* 397 Temple st.  
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*Rupp, N. N., g* A.  
*Rush, R. W., Jr. s* 110 Wall st.  
*Russell, D. G., Sr. s* 167 v-s.  
*Russell, E. D., Fr. s* 119 Wall st.  
*Russell, E. S., g* West Haven  
*Russell, G. M., Jr. a* 256 D.  
*Russell, T. H., Prof.* (pp. 23, 474-5)  
 137 Elm st.  
*Russell, T. H., Jr., Jr. m* 137 Elm st.  
*Russell, W. H., Fr. a* 137 Elm st.  
*Russell, W. I., Sr. m* 925 Howard av.  
*Ruthven, R. S., 2 l* 262 York st.  
*Ryder, R. H., i m* 668 E. D.  
*Ryder, S. W., Sr. a* 434 FW.  
*Ryland, W. J., g* 124 Park st.  
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 Sanderson, G. H., Jr. *a* 407 B.  
 Sanderson, J. C., *g* 733 Yale P. O.  
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 (pp. 31, 151, 339-40) (5 L.)  
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 241, 243-4, 246, 265, 373)  
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*Spier, S. L., Ass't. (p. 44)*  
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 Stephenson, G. W., Fr. *s* 120 High st.  
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 Stern, R. B., Jr. *a* 386 B.  
 Stetson, G. A., Jr. *s* 414 B.  
 Stetson, I. G., Jr. *for.*, Grad. *s* 8 Prospect pl.  
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 Stevens, M. L., *f* Clinton  
 Stevens, N. C., Jr. *a* 385 B.  
 Stevens, N. E., *g*, Grad. *s* 152 Temple st.  
 Stevens, P. A., Fr. *a* 586 P.  
 Stewart, F. A., Sr. *s* 391 Temple st.  
 Stewart, H. E., Jr. *m* 191 Edgewood av.  
 Stiles, H. S., Fr. *s* 379 Temple st.  
 Stillman, R. E., *3 l* 271 Crown st.  
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 Stivers, J. L., *2 l* 719 w. d.  
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 Stoddart, J. C., Fr. *a* 237 York st.  
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 Stokes, H. W., Sr. *a* 11 v.  
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 Stone, E. J., Fr. *s* 3 Hillhouse av.  
 Stone, G. A., *2 l* 635 Quinipiac av.  
 Stone, I. D., Jr. *s* 132 v-s.  
 Stone, J. A., Sr. *s* 175 v-s.  
 Stone, M. C., Sr. *a* 375 wH.  
 Stone, N. B., *l* 3 Park st.  
 Stone, N. L., Jr. *s* 130 Wall st.  
 Stone, W. A., Fr. *s* 110 Wall st.  
 Story, T. L., *l m* 7 Library st.  
 Stout, H. L., Fr. *s* 377 Temple st.  
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 Street, H. A., Fr. *a* 567 P.  
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 Struby, W. V., Fr. *s* 333 York st.  
 Stuart, E. H., Fr. *s* 120 High st.  
 Stuart, J. B., Jr. *s* 124 Prospect st.  
 Sturges, H. H., Jr. *s* 698 w. d.  
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 Sukloff, W., *l* 69 Arch st.  
 Sullivan, B. H., Sr. *a* 23 v.  
 Sullivan, J. J., Spec. *l* 43 Shelter st.  
 Sullivan, M. G., *mus.* 23 Pearl st.  
 Summers, T. B., Fr. *s* 111 Grove st.  
 Sumner, F. A., *g*, Grad. *d* Milford  
 Sumner, W. G., *Prof.* (pp. 22, 197-8, 379, 518) 240 Edwards st.  
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